The American Artisan
And Hardware Record

55. No. 17. CHICAGO, APRIL 25, 1908. $2.00 Per Year.

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TURN BUCKLES

full line of Bolts, Bolt Ends, Rivets, Lag Screw, Nuts, Washers and Carriage Hardware.

OLUMBUS BOLT WORKS, Columbus, O.

IN THE FRONT RANK FOR 25 YEARS
"AMERICAN SEAL"
ELASTIC OIL ROOFING CEMENT
STOVE PUTTY and ASBESTOS
FURNACE CEMENT

and the superior quality of these goods is still universally recognized.

THE WM. CONNORS PAINT MFG. COMPANY
MAKERS
TROY, N. Y.

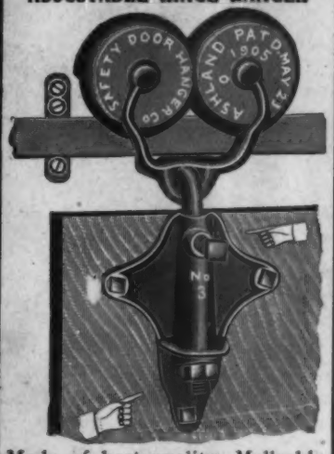
Western Agent
FRIEDLEY-VOSHARDT CO.
194-204 Mather Street, Chicago, Ill.

Southwestern Agent
STOCKHOFF SUPPLY COMPANY
107 N. Main St., St. Louis, Mo.

TRYING to do business without advertising is like winking at a girl in the dark; you know what you are doing but nobody else does.

The Hardware Merchant who sells good goods
SELLS ORIGINAL
MATCHLESS
Floor Hinge, Jamb Hinges, and Hardware Specialties.
If your Jobber cannot furnish them, write us.
LAWSON MFG. CO
40 Dearborn St., Chicago, Ill.

WIZARD
ADJUSTABLE HINGE HANGER



Made of best quality Malleable Iron. The two sets of Steel Roller Bearings reduce friction and make an exceptionally easy running hanger. Lateral and Vertical adjustment. No special track required. *Ask your jobber or write us.*
SAFETY DOOR HANGER CO.
Manufacturers
Ashland, O., Hamilton, Ont., Can.

"NEVER-BREAK"
TRADE MARK

Catalog Free

"NEVER-BREAK"
STEEL SPIDERS, GRIDDLES AND KETTLES
WILL NOT
Scale Off like cheap enamel.
WILL NOT
Scorch or Burn like light fry pans and skillets.
WILL NOT
Absorb Grease or Flavors like cast iron.
THE AVERY STAMPING CO.
CLEVELAND, OHIO
Sole Manufacturers
"NEVER-BREAK" Goods.

DELTA FILES DELTA FILES
FILES OF QUALITY
DELTA FILES
TRADE MARK DELTA
Lest You Forget—We Say It Yet
DELTA FILES
CARVER FILE CO., - Philadelphia, Pa.
An independent organization not connected with the trust in any form, shape or manner.

PULLMAN
SASHBALANCES

Are you selling them?
IN USE EVERYWHERE
Send us your orders
PULLMAN MFG. COMPANY
SOPHIA STREET
ROCHSTER, N. Y., U S. A.

HONES ARE HONES
But "APART" Hones are the Thing

For Sale by all Jobbers
S. R. DROESCHER
79 Warren St. NEW YORK, N. Y

5 assorted as above with Steel Radiators, 20 to 24 in. Fire Pots, for less than $175.00, delivered to many places. Height 3 ft. 9 in. to 3 ft. 11 in.

Whether You Make a Dollar or Save a Dollar the Effect is the Same on Your Bank Account

We Are in a Position to Render You Service Both Ways on

Etna and Tremont Furnaces

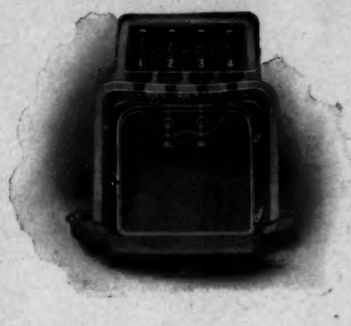
We suggest that you ask for our Catalogue and Price List. It shows 8 styles in a number of sizes.

Please Remember That

Furnaces are Made of Iron and Steel, and that We Make Furnaces in Pittsburgh.

Stove & Range Co. of Pittsburgh

PITTSBURGH, PA.

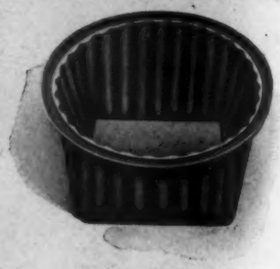


SEE THIS

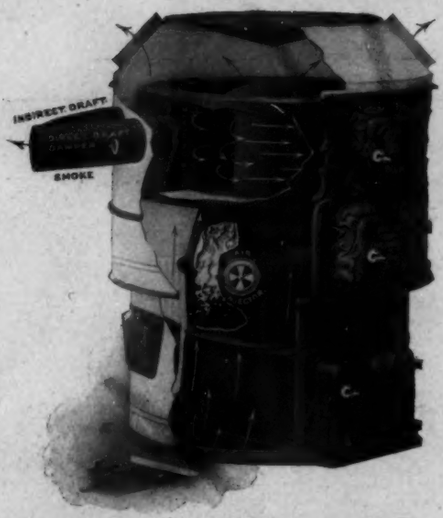
Base and Firepot!

All the Trade are Talking About It.

Write Us for Our Catalogue and Full Description.



We are now making our
GAS TIGHT,
STEEL DOME
CRUSADER and
ADMIRAL FURNACES
With Our
PATENT
SQUARE POT and
SQUARE BASE



BOYNTON'S SOFT COAL CRUSADER FURNACE

The BOYNTON FURNACE CO.

207-209 Water St.
NEW YORK

147-149 Lake St.
CHICAGO

Only One Stove Can Be The Best

AN EXAMINATION OF THE IMPROVED CONSTRUCTION OF THE

MONITOR

FIVE FRONT FLUE

RADIATOR

WILL CONVINCE YOU THAT

It Is The Greatest Achievement In Stove Making!

NO COMPETITION!

It is the Only Stove of Its Kind Made.

Points for Consideration

1. Front part of stove always the hottest.
2. A feature not to be found in any other make.
3. Heat is radiated into center of room direct.
4. No other stove does this.
5. Fire passes down the 5 front flues, then under stove, and up the back flue to chimney.
6. No stove ever made but the MONITOR did this.
7. We guarantee 1683 square inches of radiation more than furnished by other makes.
8. This stove furnishes all this additional heat with the same amount of fuel used in other makes.
9. In addition to above the MONITOR RADIATOR has hot air flues of 946 square inch capacity which can be conducted to heat rooms above or utilized in heating the rooms on lower floor.
10. **Best Heater Ever Produced.** Convince yourself.

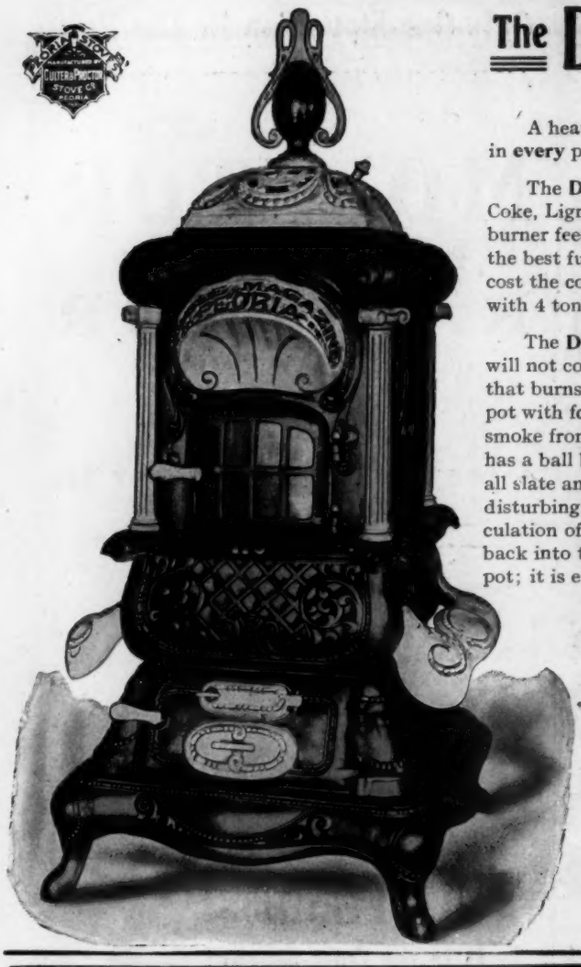
The

MONITOR STOVE AND RANGE CO.

CINCINNATI, OHIO.

Write and Secure Agency at once Before your Competitor does it.

MORLEY BROS., Saginaw, Mich., Distributors for the State of Michigan
GREAT WESTERN STOVE & REPAIR CO., Minneapolis, Minn. Northwestern Distributors.
HIBBS & FLEMING, Los Angeles, Cal., Distributors for the State of California.
MORLEY-MURPHY HDW. CO., Green Bay, Wis., Distributors for the State of Wisconsin.



The Double Magazine Peoria

A heater that will stand the test—one that will satisfy the consumer in **every** particular is the heater that **you** want to sell.

The **Double Magazine Peoria** will burn Slack, Nut Soft Coal, Crushed Coke, Lignite or Hard Coal and feed automatically, the same as a base burner feeds hard coal. A mixture of Slack and Nut Soft Coal affords the best fuel for this heater and one winter's coal bill with these would cost the consumer $3.75—isn't this a good selling point when compared with 4 tons of hard coal at $32.00 for a base burner?

The **Double Magazine Peoria** has an automatic magazine feed that will not coke or burn up in the magazine; it has a down draft hot blast that burns all the gas and smoke in the combustion chamber; it has a fire pot with four **cored** air channels that will carry all gas, ash dust and smoke from the ash pit into the combustion chamber and burn them; it has a ball bearing shaking grate with a revolving center that will crush all slate and foreign substances and deposit them in the ash pan without disturbing the fire bed. It is a powerful base heater, caused by the circulation of air down through the double magazine into the ash pit and back into the combustion chamber through the air channels in the fire pot; it is easy and simple to operate; it is a fire keeper; it is made throughout of the very best material obtainable. The Colonial design of the stove, the impression of stability it bears and the urn all speak for themselves.

WILL THESE FACTS STAND THE TEST AND SATISFY THE CONSUMER?

Write for descriptive literature, agency proposition and prices with discounts.

The Culter & Proctor Stove Co.

200 Water Street, PEORIA, ILLINOIS

VAN'S

Patent Improved Wrought Steel Portable

RANGE

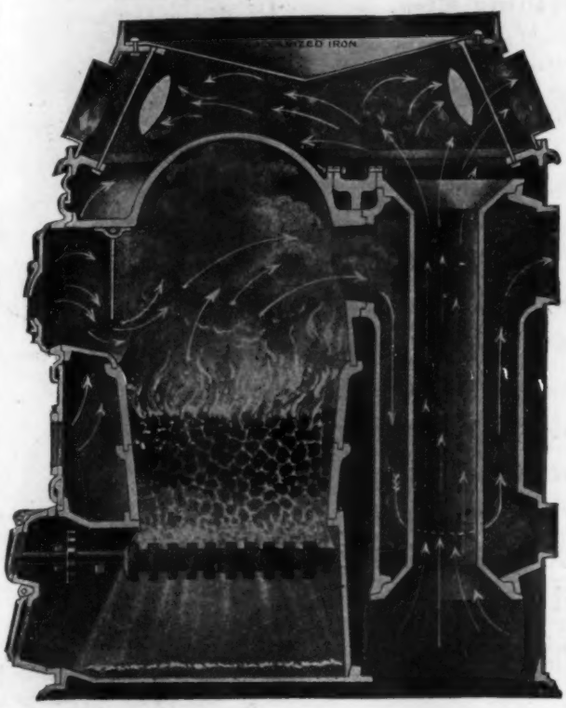
For Hotels, Restaurants, Public Institutions, Boarding Houses and Private Families. All kinds of Hotel Implements for culinary purposes. Manufactured and for sale by

The

JOHN VAN RANGE CO.

Southwest Corner 5th and Broadway

CINCINNATI - - OHIO



Shaded Sectional Cut

of the

"Low Down" Crown Warm Air Furnace

Designed to show the direction taken by the gases and warm air. Also the thickness and staunchness of its parts.

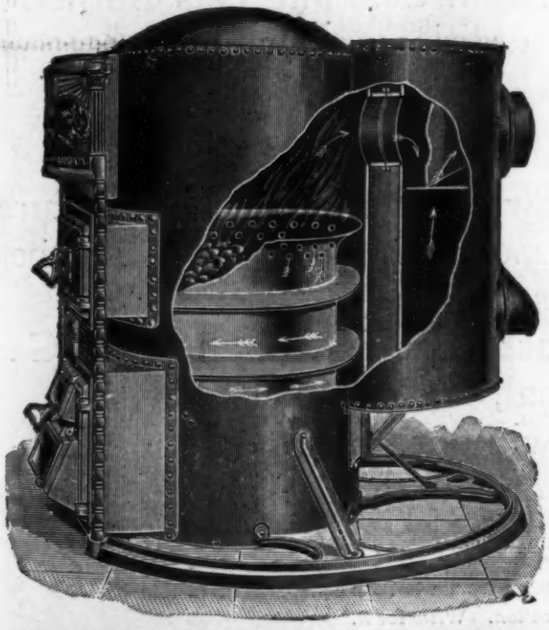
The March-Brownback Stove Co.

POTTSTOWN, PA.

Chicago Agency, JOHN KONTNY, 264 South Clinton Street.

MR. DEALER—WHY NOT

Handle the Best?



Insure your success and satisfy your customers by installing a furnace which never fails to please and which always gives satisfactory service.

We can convince anyone interested in heating that

The Weir

ALL STEEL Gas and Soot Consuming Furnace is an unequalled success as a heater. We can prove that THE WEIR accomplishes everything claimed for it. All we want is the chance. Write for our Catalog to-day.

THE MEYER FURNACE CO., Peoria, Ill.

TASTES DIFFER IN FURNACES

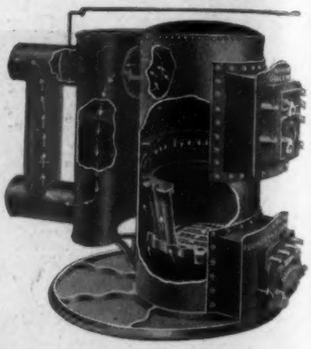
As in Everything Else.

Green's Colonial Furnace.

One style of furnace will not please all of your customers. One man wants a steel furnace, another a cast iron furnace. Can you now supply the demands of all your customers? Why not handle a complete line—high priced furnaces and low priced furnaces; all cast furnaces, all steel furnaces, and furnaces part cast and part steel; furnaces for soft coal, furnaces for hard coal, and furnaces for wood; furnaces with every modern improvement and convenience? We manufacture

GREEN'S Colonial Furnace
GREEN'S Base Heater Furnace
GREEN'S Low Down Furnace
GREEN'S Steel Plate Furnace
GREEN'S Crescent Furnace
GREEN'S Hawkeye Furnace
GREEN'S Wood Furnace
GREEN'S Steel Dome Furnace

We have a line which will interest you. Our location insures a low freight rate. Our class of workmen insures a high grade article. Our stock of goods insures prompt shipment.



Green's Base Heater Furnace.

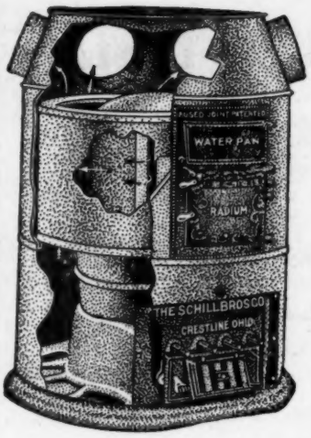
Green's Low Down Furnace.

Green's Hawkeye Furnace.

Write for Catalogue and Discounts.

GREEN FOUNDRY & FURNACE WORKS, DEPT. "A" Des Moines, Ia.

OUR IMPROVED RADIUM FURNACE



A combination Coal and Gas Burner, is the latest addition to our line.

THE RADIUM

is a low down heater with special features entirely its own which make it the best of its class.

It is a fact that in this furnace, Gas, Hard Coal, Coke or Wood can be burned without change or without interfering with one another; or any of the above fuel and gas can be burned at the same time.

For economical and efficient results no furnace on the market can equal SCHILL'S RADIUM.
Catalog on Application. Write for it.

THE SCHILL BROS. CO., Crestline, Ohio

IT'S PROFIT YOU'RE AFTER

Would you refuse to increase your profit without taking any chances? CERTAINLY NOT.

Then accept the exclusive agency proposition offered for

"MUELLER" FURNACES

A line of heaters well known wherever furnaces are sold.

A heater that stands in a class of its own—unequalled for Power, Durability, Economy.

It is out of the competition class.

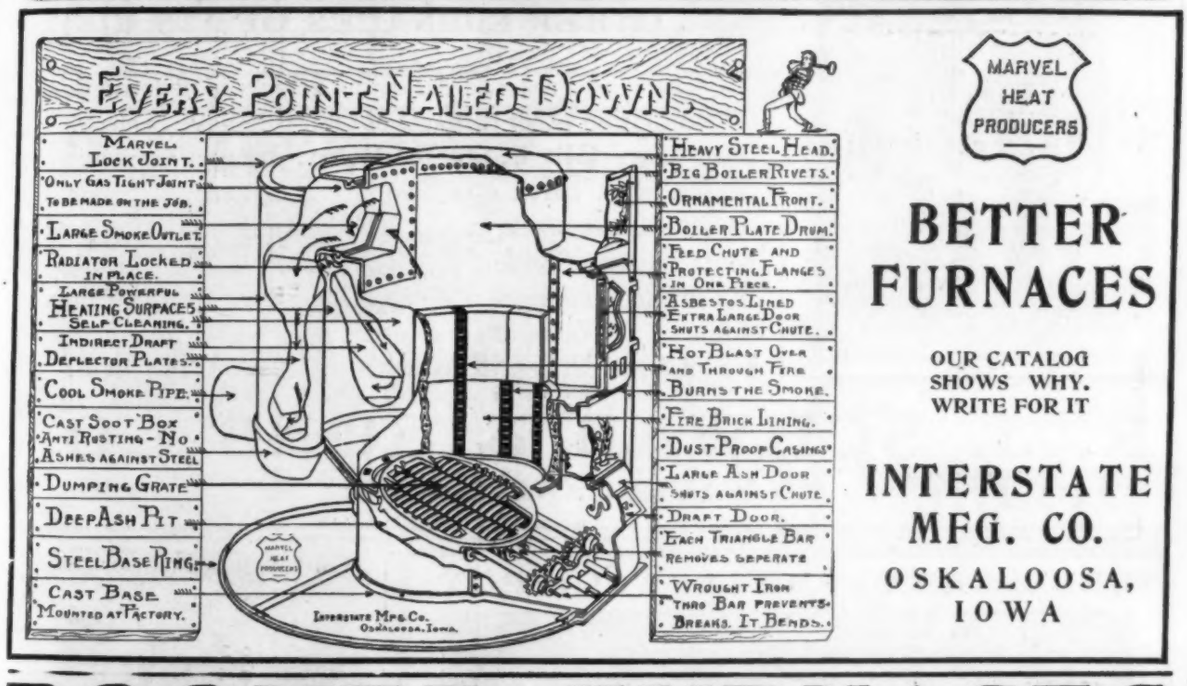
Easier sales, and at a much greater profit than can be made on competition heaters.

Result—INCREASED SALES and INCREASED PROFITS —for you.

Get in line—write NOW for the Agency.

L. J. Mueller Furnace Company

Established 1857 **191 Reed Street, MILWAUKEE, WIS.**



MARVEL HEAT PRODUCERS

BETTER FURNACES

OUR CATALOG SHOWS WHY. WRITE FOR IT

INTERSTATE MFG. CO.

OSKALOOSA, IOWA

BOOMER FURNACES

Quickly Establish a Local Reputation

It is always a little hard to introduce an old Furnace in New Territory.

But the first BOOMER Furnace you sell will pave the way for an unlimited profitable furnace business.

It is likewise better to take an old, time-tried furnace like the BOOMER, and sell it in new territory, than to continue selling, or endeavoring to sell, a Furnace that does not "stand up" the way you would like to have it.

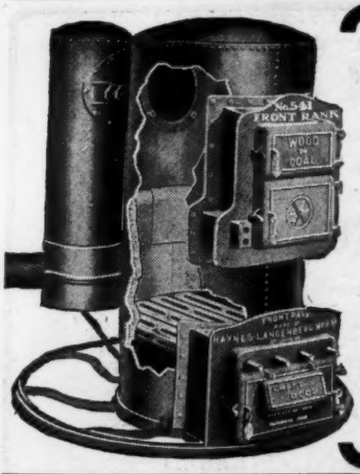
The BOOMER Furnace is one of those always-reliable, sure-to-give-satisfaction commodities that is a genuine pleasure to sell.

The BOOMER Agency, remember, has attractive inducements.

We'll gladly send you our Furnace catalogue upon request.

The HESS SNYDER COMPANY

Manufacturers **MASSILLON, OHIO**



A Furnace That's Different!

You know as well as we do that almost all furnaces are alike in construction—and that your competitor can quote just as low a price as you.

With this FRONT RANK Furnace you can go after a prospective customer with a line of argument that is entirely different.

The FRONT RANK is made of heavy sheet armor plate, riveted like a boiler. It can't bulge apart, and it can't leak gas.

There are no "cup joints" in which the cement can shrivel up and allow gas to escape.

The FRONT RANK Furnace offers a mighty fine opportunity to one good dealer in each town.

Do you want our proposition?

HAYNES-LANGENBERG MFG. COMPANY

4045-57 Forest Park Blvd., ST. LOUIS

Gilt Edge Radium Furnace

JUST A LITTLE BIT BETTER THAN ALL OTHER FURNACES OF ITS KIND

There are reasons: All of the defects of construction so common in other furnaces of this style have been overcome in the **Gilt Edge Radium.** It is an economical heater, every particle of fuel being utilized. It burns hard coal and block wood. The best materials are used in its construction and it has an unusually large radiating surface making it a powerful heater. These are only a few of its points of superiority. There are many others and our catalog explains them fully. Write for it.

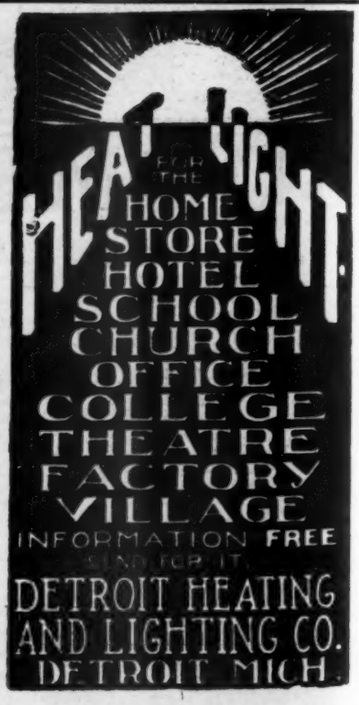
R. J. SCHWAB & SONS CO.

MILWAUKEE, WISCONSIN

CELLULAR OVERDRAFT FIREPOT

Found Only in Our Furnaces

THE BONNOT COMPANY ∴ CANTON, OHIO



MILLER GAS RANGES

AMERICA'S BEST

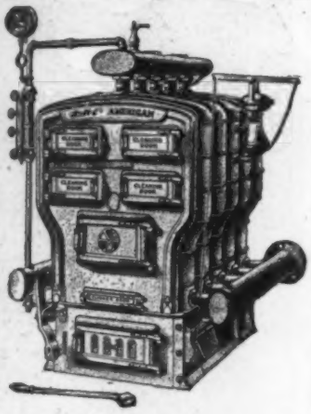
The Only "All Steel" Gas Ranges in the Market.

It is the handsomest and finest finished Range ever built, having the same general appearance that our new "MILLER" Coal Range has, which is acknowledged by all connoisseurs of high art in Ranges to be "just the thing."

Write for Catalog

The WM. MILLER RANGE & FURNACE CO.

CINCINNATI, OHIO



SPECIFY

Klymax Boilers

and

Kewanee Radiators

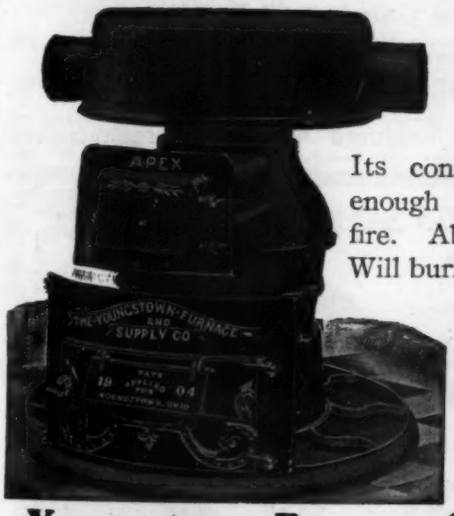
KLYMAX Boilers are built to meet the demand for a boiler of highest grade material and workmanship, combined with simplicity of construction and operation.

Manufactured by

Kellogg-Mackay-Cameron Co.

CHICAGO

The APEX Warm Air Furnace



is an extra heavy, durable furnace with a most powerful heating capacity. Its construction is strong enough to resist the fiercest fire. Absolutely gas tight. Will burn hard coal, soft coal or coke. Simple to to operate, economical and thoroughly efficient.

Write Today for Catalogue

Youngstown Furnace & Supply Co.

Chicago Office, 211-213 Lake St. **Youngstown, Ohio**

Rood & McIntyre, Kansas City, Mo., Southwestern Distributors

Economy, Cleanliness and Durability All Combined in the

Moncrief

Warm Air Furnace

A few of the many good points of the MONCRIEF
- All Cast Iron
- Moncrief Duplex Grate
- Large Radiating Surface
- Top Return Flue
- Double Fire Pot
- Large Grate Surface

HENRY & SCHEIBLE CO.

825-29 Long Avenue, N. W.
CLEVELAND, O.

Western Sales Agent
J. C. KIMMEL, 3314 E. 15th St.
Kansas City, Mo.

THE Ideal Epworth Acetylene Co. INCORPORATED

MANUFACTURERS OF THE IDEAL EPWORTH "D" GENERATOR
DEALERS IN CARBIDE, BURNERS, ACETYLENE FIXTURES, ETC

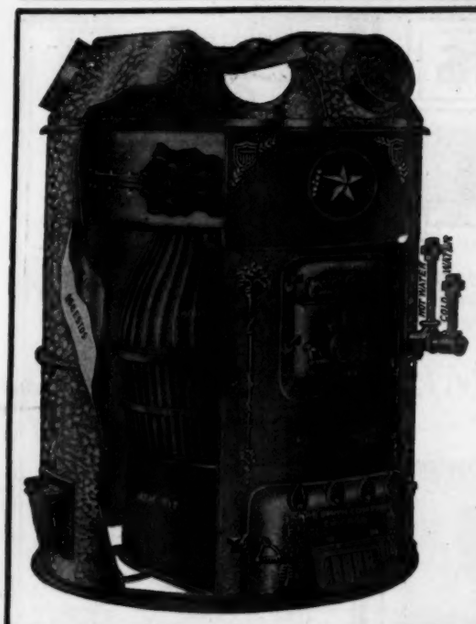
Write for Circulars and Terms

The Ideal Epworth Acetylene Generators

Are Ideal in construction, Ideal in light producing power, Ideal in giving out steady light, Ideal in selling qualities, Ideal in lighting Dwellings, Stores, Hotels, Churches and Towns. Acetylene light is the safest, best, cheapest, brightest, finest light in the world, when produced in the Ideal Epworth Generators.

Satisfaction Guaranteed. Agents Wanted.

IDEAL EPWORTH ACETYLENE CO., JOHNSTOWN, PA. [Successors to Epworth Gas, Light & Heating Co., Waterloo, Iowa.] WATERLOO, IOWA



The Hero Furnace

For any kind of Fuel

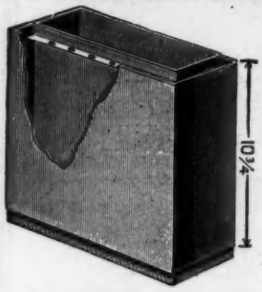
Showing Smith's Cleanable Water Heater

Cast or Steel Radiator.
Large Double Feed Doors.
Independent Grate Bars.
Everything an up-to-date furnace should have.
Catalog tells all about it, also about our

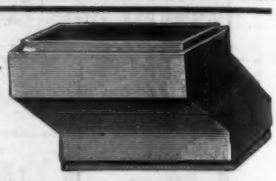
New Hero Boilers

CHAS. SMITH COMPANY

101 East Lake Street, CHICAGO, ILL.



The MICHIGAN SAFETY FURNACE PIPE COMPANY



Corner Brooklyn and Abbott Streets
DETROIT, MICHIGAN

Manufacturers of Safety Wall Pipe, Single Pipe and Fittings in Both Tin and Galvanized Iron.

Send For Our Latest Catalog

We Want Your Business And Are Able To Take Care Of It.

We belong to no combination. Do not get our name confused with other manufacturers.

HERE'S THE REASON!

Improved Handy Furnace Pipe isn't just "plain pipe"—**IT'S DIFFERENT.** It insures the most perfect ventilation added to a saving in fuel consumption.

Has the easiest slip, the longest lap and the best fitting joint of any pipe made. The joints can never come apart under any circumstances, thus insuring the utmost safety.

Improved HANDY Furnace Pipe

Safest, Strongest and Best Furnace Pipe Made

Made in following lengths: 58, 20, 15, 12, 10, 8, 6½, 5, 4 and 2 inches.

It requires practically no time to install.

Insures perfect sales to the dealer and perfect service to the customer.

EXCLUSIVELY USED BY ALL FURNACE MEN.

Send for illustrated catalog—free for the asking.

F. MEYER & BRO. CO., PEORIA, ILL.

Schwab Side Wall Register

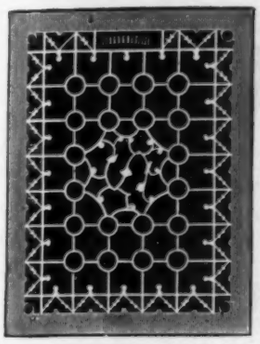
A factor in the Modern Method of heating a room which is a great improvement on the old fashioned floor register.

Schwab's Side Wall Registers are the Neatest in Design of Any on the Market

NOISELESS IN OPERATION. BEST IN CONSTRUCTION

In fact this is in all respects the one perfect side wall register. Write today for illustrated and descriptive catalog.

R. J. SCHWAB & SONS CO., MILWAUKEE, WISCONSIN



REGISTERS

NOT IN THE ASSOCIATION. OUR DISCOUNT 80 and 5%.

MAKERS OF ALL CAST WARM AIR REGISTERS, neat in design, and superior in finish, interchangeable with all first-class makes, and will wear a life-time.
Why buy the so-called Semi-Steel or Stamped Register? They are only imitations.
We are the largest makers of registers in the country. Our own foundry with molding capacity of 200 molders.
Get the Association's discount and compare it with ours. You will see how much we can save you.
We carry a large stock insuring prompt shipment.

STANDARD REGISTER COMPANY

Register Dept., Standard Foundry & Mfg. Co., CLEVELAND, OHIO

STEEL CASING RINGS

Are Made to Conform to Individual Requirements in Every Respect

NEVER BREAK **CIRCLES PERFECT**

READY TO USE **INCREASE PROFITS**

THE WALWORTH RUN FOUNDRY CO., 27th St., S. W., **Cleveland, O.**

Makers of Fine Grey Iron Castings :: :: Mfrs. of Semi-Steel Registers

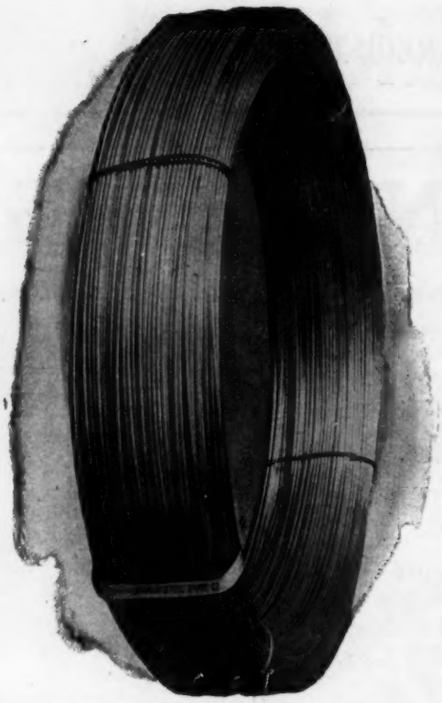
American Steel & Wire Co.

Chicago New York Worcester Denver San Francisco

Maker of

W. & M.

Telephone Wire



½ Mile Coil No. 8 Galv. B. B. Tel. Wire.

OUR W. & M. Telephone Wire is drawn from either steel or iron stock made especially for the purpose and rigidly inspected. The spelter is carefully laid on with uniform thickness. Lately improved processes of galvanizing are employed, ensuring ample protection and long life for the wire under extreme weather conditions.

In point of conductivity, this good wire has attained the highest possibilities of electrical science, and we submit our three brands, "E.B.B.", "B.B." and "Steel" as the best that can be produced.

ESTABLISHED 1880.

THE AMERICAN ARTISAN & HARDWARE RECORD

Representative of the Stove, Tin, Hardware, Heating and Ventilating Interests.

PUBLISHED EVERY SATURDAY.

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IN FOREIGN COUNTRIES INCLUDING CANADA, ONE YEAR, POSTAGE PAID, $4.00.
Address all Letters, Communications, and Remittances to

DANIEL STERN, PUBLISHER AND PROPRIETOR,
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CHICAGO, APRIL 25, 1908.

Highly Modern Environment.

IT IS with some degree of sentimental regret that THE AMERICAN ARTISAN announces its removal from 69 Dearborn street, Chicago, to the typically modern Ellsworth Building, at 353, 355 and 357 Dearborn street, and 88, 90, 92 and 94 Plymouth place. It is quite natural that the original and the succeedingly more commodious quarters which have been occupied at the Dearborn and Randolph street corner for more than twenty-eight years past should not be found wholly modern after so long a period of occupancy, while the march of the towering fireproof modern skyscraper has had its birth and and achieved its present glories in the interval. With the sentimental regrets that are occasioned by this removal which has been accomplished are the memories of the many friendships made and the successes achieved in the old familiar quarters and of the many faces of those who in these many years have passed into the unknown beyond never to return. It was owing to a direct lack of a sufficiency of room for the conduct of a steadily growing development of the business of THE AMERICAN ARTISAN along modern lines that this removal was necessitated, and with this pressing necessity has come the requirement for typical modern surroundings of the best type and amplitude. We beg, therefore, to announce that for the future our patrons and friends will be most welcome to our newly established quarters in the Ellsworth Building, 353-355-357 Dearborn street, to which location all communications should hereafter be addressed.

Value of Ladies' Patronage.

HARDWARE MERCHANTS generally are finding painstaking worth while in cultivating feminine patronage. A large proportion of the stock of a modern hardware store is no less attractive to women than the goods displayed in millinery emporiums. It is only reasonable, therefore, to consider feminine wants and tastes when arranging window displays of hardware, apportioning floor space, or preparing advertising "copy."

"The hand that rocks the cradle is the hand that rules the world," and the merchant is unwise who overlooks that fact in its commercial bearings. If the housewise who purchases a gas range at B——'s store finds cause for self-congratulation on her choice of a place to trade, the probabilities are that the housewife's husband, sons and brothers will gravitate towards B——'s, eventually, for their shingle nails and washers. The satisfied woman patron is always likely to be, whether intentionally or not, the merchant's strongest ally in the building up of his trade.

In this connection, it is advisable to make the hardware store as agreeable as may be to feminine eyes. Cleanliness and an orderly arrangement of the stock are imperative if women customers' approval is desired.

Time was when hardware merchants' windows were almost universally forbidding. Unwieldy shapes and sombre, neutral hues combined in making the effect of the window displays artistically atrocious. The last place into which a woman would be apt to look, with interest or curiosity, was formerly the hardware merchant's window. Fortunately, such a state of things is no longer general. It was long ago discovered that the preparation of such windows permits the exercise of an aesthetic taste, and the discovery has been made the basis of practice in all up-to-the-times establishments. The competent dresser of hardware windows knows how to achieve truimphs of symmetry and color-harmony. When this talent is ramified by a knowledge of the goods that appeal to feminine interest, the problem of alluring a feminine clientage is practically solved.

Usually, the most effective display is one that not only presents an article to notice, but suggests its utility, its relation to other articles of familiar use. When a range is shown, the sight of baking tins in its open oven, and of glowing artificial coals in its grate, starts some mysterious process of association in the mind of the observer, which tends to create a desire to possess the range. The same familiar principle is commonly applied to a great variety of goods, and always with special effectiveness as viewed from the feminine standpoint.

But the window is not exclusively the ground on which the means of attracting women is to be calculated. Many stores have experimented successfully with a department expressly for women's needs. When this is impracticable, on account of space limitations or other reasons, it is a politic idea to place certain articles peculiar to the housewife's domain conspicuously in the foreground, so that they shall be seen immediately by any woman entering the store. This gives female patrons the impression that the store and its offerings were meant to cater to their needs no less than to men's. The woman who enters such an emporium does not feel out of place, as she might if she found herself surrounded by goods of utility only in the field or barn.

In a word, the wise merchant makes the ladies feel at home in his establishment.

Well-groomed and courteous salesmen are indis-

pensable to such a purpose. Occasionally, one sees a hardware store in some rural community whose managers permit slackness (undoubtedly at incalculable loss to themselves) in the matter of clerks' appearance and deportment. Begrimed faces, shirt-sleeves, and an air of inattention, are not presentable in any mercantile house, where business depends upon customers' receiving a felicitous impression. In small towns where people are less critical of externals, women patrons may not consciously entertain an objection to shirt sleeves and grime, but the fact remains that if the clerks were "dapper" and accommodating, much better results would be obtained by the managers than their philosophy has dreamed of.

In preparing advertising copy there is a special knack in making it effective wherever women readers are concerned. They will buy for the love of a bargain, where men will not. Men must be given logic; women will dispense with it if their fancy is captivated. And above all, the labor-saving argument clinches matters with the lady readers.

A hardware merchant in a Nebraska town reports that he has found it profitable to supplement his regular advertising with a series of circulars expressly for women. Every housekeeper within a certain radius of his store recently received through the mail a circular from him, which contained, besides strong selling arguments adapted to the feminine viewpoint, a list of the household articles which the hardware dealer kept in stock. Each recipient was asked to send in the name of any additional article of hardware, appropriate for women's use, which she could think of. A premium was offered for unique suggestions. After launching this advertising manœuvre, the merchant began to doubt its sensibleness. It occurred to him that the women would be made to think more about what his stock lacked than about its actual attractions. Furthermore, he was afraid that he would be expected to buy all the complementary articles named by the women. Results of the experiment did not justify these qualms, however, and the plan is declared to have accomplished its main object—which was to increase the proportion of women among the dealer's clientage.

The Real Wealth.

It is only through comparative processes that we are permitted to even faintly comprehend the conditions of enormous wealth and boundless resources that the United States as a nation and a people are gifted with. We mean, of course, the natural wealth as it comes unstinted from the earth in its various forms and as it comes to us in the form of tabulated and duly verified quantities and forms. Enough is apparent, however, to make it plain that the farmer of the United States is engaged in a business that makes for national welfare by providing the wherewithal upon a scale of magnificence that seriously taxes the imagination for its comprehension.

Fortunately we have in our Department of Agriculture at Washington complete data of the condition of our farms, farmers and farm affairs, and with this complete and accurate statistics that apply to all farm conditions specifically and severally, and in the department we have a bureau of facts that now begins to amaze us.

Citing the past year, that of 1907, we find that the wealth production on American farms, as expressed in dollar values, is amazing in extent. In arriving at the total the farm products of the year are estimated in value for every detail presented by the census and at that point in production at which they acquire commercial value.

The grand total for 1907 is $7,412,000,000. This is $657,000,000 above the value of 1906, $1,103,000,000 above that of 1905, $1,253,000,000 above that of 1904, $1,495,000,000 above that of 1903, and $2,695,000,000 above the census amount for 1899. The value of the farm products of 1907 was 10 per cent greater than that of 1906, 17 per cent over 1905, 20 per cent over 1904, 25 per cent over 1903, and 57 per cent over 1899. A simple series of index numbers shows the progressive movement of wealth production by the farmer. The value of the products in 1899 being taken at 100, the value for 1903 stands at 125, for 1904 at 131, for 1905 at 134, for 1906 at 143, and for 1907 at 157. During the last nine years wealth estimated as above explained was created on farms to the fabulous amount of $53,000,000,000. Besides the crops, there were farm dairy products in 1907 which nearly reached $800,000,000. The price of butter increased 4¾ cents a pound over 1906, and of milk three-fourths of a cent a gallon. More than $600,000,000 must be regarded as the value of the poultry and eggs produced on farms in 1907. The amount may easily have been larger. This industry has advanced at such a rapid rate that no arithmetic can keep up with it. The farm price of eggs in 1899 was 11.15 cents per dozen as an average for the United States; in 1903, 12.37 cents; in 1904, 17.2 cents; in 1905, 18.7 cents; in 1906, 17 cents, and in 1907, 18.2 cents. The animals sold from farms and slaughtered on them in 1907 were worth about $1,270,000,000. Dairy products are much more valuable than any crop except corn, and are equal to one-third of the value of all cereals. The poultry products are worth more than the wheat, and perhaps as much as the hay. The live-stock sold from farms and slaughtered on them is worth nearly twice as much as the cotton crop.

RANDOM NOTES AND SKETCHES.

BY SIDNEY ARNOLD.

My esteemed friend, Albert E. Snow, representing the Plume & Atwood Manufacturing Co. of New York and Chicago, among others who have become interested in our recent publicationn of the item "What becomes of the pins?" generously comes in with pin information and statistics which I have not heretofore had and I'm glad of it. I have been giving you figures that relate to the foreign pin product and incidentally trying to claim guesses on "What became of the pins" until checked up by my Louisville friend referred to a week ago.

* * *

The pin information thus acquired permits me to say authoritatively that our good old United States produces one hundred and thirty-three million gross of pins. Nineteen billion pins. The Census Bureau is

the authority for the statement that the output of pins in this country for the year 1905 alone reached these stupendous figures. It is not strange that mankind has for many years wondered where all the pins go. Nineteen billion supplies 225 pins for every man, woman and child in the country. Nor is this all. These figures are for the common pin and do not include hair pins, safety pins nor the importation of an unstated quantity of pins from other countries.

* * *

If we assume that the average length of pins is one inch, it appears that in a single year we produce 19,000,000,000 inches of pins, 1,600,000,000 feet of pins, 320,000 miles of pins, pins enough if laid end to end to go around the world thirteen times, pins enough to make a hundred strand cable between New York and Liverpool. But why pile it up? It is enough to say that it is a deuce of a lot of pins. And the whole lot cost only about $1,200,000. For the benefit of sticklers for exactness we will say that the figures are 132,632,232 gross, valued at $1,129,006 for the year 1905 alone.

* * *

"What do you know about that?" It all goes to show that when any one hurries me after the manner of my friend, Ed. Heartick of Louisville, something happens in the way of figures and statistics and these may be regarded quite exact. So I'm still asking the question, "What becomes of all the pins?" but my friend Ed. of Louisville is barred.

* * *

Speaking of pins reminds me that while "one swallow does not make one spring," one pin carefully inserted in the seat of a chair often makes one spring.

* * *

With the advent of the fishing season fish stories are ripening and my veracious friends are beginning to hand them in. Here's one which tells of catching a 26 pound pickerel with the bare hands, and that's going some. It is number one on my '08 string and it comes from the state of Governor Johnson, namely, Minnesota, but even at that it is unnecessary to get it snarled up with the Bryan-Johnson stories. The tall ones now current.

* * *

So here goes the piscatorial yarn:

"The opening of the fishing season in Minnesota has revealed a condition of things almost unparalleled in the annals of this favorite sport.

"Fish are running through the creeks connecting the various lakes in such shoals that at times it is difficult to cross the creeks without stepping on them. At one favorite fishing place the banks of the creeks are lined with spectators, who stand and watch the fishermen pick out the largest and best fish with their hands, as they swim past.

"At one point a fisherman took out sixty fish in record time, the largest being a pickerel weighing 26 pounds.

"Witnesses describe the fish as swimming so thickly that a boy, armed with a spear for the first time, could have no difficulty in taking out a wagonload.

"In fact, the fish are so plentiful as to become a problem, as they are clogging up the streams."

I'm an accomplished liar myself, but I'm older than I used to be and such exalted ones as this begins to get on my nerves—likewise my ambition and genius.

* * *

Since the demise and subsequent resurrection of roller skates and roller skating I'm prepared for the reappearance of most any old thing of the past. For the rollers were certainly dead good and plenty after a whirlwind existence and collapse among us. But now look at them. More than ever, and the hardware and sporting goods trades are taxed to get 'em out anywhere near as fast as they are demanded and grabbed up. It's wheels for everybody, kids, grown-ups and old maids. Let 'em go; it looks good, all right.

* * *

And now I'm up against positive figures and good calculations that settle for me the quick return of the popularity of the bicycle. When the bicycle ceased to be a fad there were still a good many people who believed that its popularity would revive later. Nevertheless, the sport of riding the wheel seemed to be pretty dead, the collapse being at its worst in 1901. In 1904 only two hundred and fifty thousand bicycles were manufactured in this country. But in 1907 the number rose to seven hundred and fifty thousand, and during the present year no fewer than one million two hundred and fifty thousand new wheels will be turned out in American factories.

These figures, which are official, afford the best possible proof of the revival of popular interest in bicycling. Undoubtedly it was the very excess of the craze that did the most damage. People overdid the amusement and became tired of it. But a great many of them are taking it up again, and thousands of men who have not bestridden a wheel for half a dozen years are buying bicycles.

* * *

Bicycle dealers tell me that such men are dropping in every day to purchase wheels. One says that he is tired of riding on street cars and holding on to the strap. Another declares that he does not feel as well as he did when he rode a wheel every day. A third has decided that he misses the fun he used to have when a bicycle was always ready to take him anywhere. Besides, walking is a laborious method of locomotion, comparatively.

But it is also to be considered that the employment of the bicycle as a vehicle of practical utility is greatly increasing. Many business firms keep on hand and utilize a dozen to fifty wheels. Thus an electric lighting concern will have thirty or forty bicycles, perhaps, on which its men go about to make repairs and to attend to various odds and ends of work. Goods are delivered and advertisements are distributed by wheel. Indeed, the bicycle has here become indispensable.

* * *

Then, too, the comparative cheapness of bicycles at the present time is an important help to the restoration of their popularity. For thirty or forty dollars one can buy a more satisfactory wheel to-day than could be purchased for one hundred dollars when the frenzy was at its height ten years ago.

News Siftings

The Hoosier Company, a recently incorporated Chicago manufacturing concern, is capitalized at $10,000. The company will manufacture stove polish.

The reconstructed stove plant of the Sheffield Stove & Foundry Co., at Chattanoga, Tenn., is nearing completion. President Cohen announces that it will be in operation with 100 molders within 30 days.

The Indiana Stove Works of Evansville, Ind., has placed contracts for the building of a three story warehouse, 130 x 105 feet in extent. The building will be erected in substantial brick form. It is to be used for pattern storage.

The Independent Stove Company of Detroit, Mich., has announced its intention to remove its plant from Detroit to Owosso, Mich. It is stated that the question of labor trouble to a considerable extent entered into the company's announced plan.

The plant and patterns and business fixtures of the Collins & Burgie Company, stove manufacturers at Marengo, Ill., whose entire plant was, not long ago, destroyed by fire, has, as heretofore stated by us, been removed to Pueblo, Colo. The company which will operate the business at Pueblo will be known as the Pueblo Stove & Iron Supply Co.

A handsomely engraved, mourning bordered card has been received, commemorating the late Franklin March, president of the March-Brownback Stove Co., of Pottstown, Pa., whose death, on April 14th, was announced with profound regret in last week's issue of THE AMERICAN ARTISAN. Friends of the deceased will appreciate such an appropriate memorial as the card at hand.

Two highly interesting and distinctly pretty colored post cards direct from Interlaken and Luzerne in Switzerland are received from Mr. A. C. Barler of the Barler Manufacturing Co., makers of the Ideal Oil Heating Stove at 104 Lake street, Chicago. It is a pleasure to know that our esteemed friend who is so interestingly situated takes occasion to remember us so pleasantly.

A free sample may be obtained on demand of the all-steel Yankee dampers and clips made by the S. M. Howes Co., 40, 42, 44, 46 Union street, Boston. Of this product, the smoke pipe sizes are 3 inches to 8 inches, and the hot air pipe sizes, 6 to 15 inches. The compact and neat shape of the "Yankee" makes it "easy to get in and out"—in other words, no trouble or waste of time is necessitated in adjusting it.

Mr. W. T. Bussey, president of the Chicago Stove Works who a year ago was elected to the presidency of the Illinois Club of Chicago was re-elected to the same office at a recent annual meeting of the club. Mr. Bussey thus indicates his general popularity in society and club affairs along the same lines that have distinguished him popularly in the stove trade for many years past.

The Blymyer Company, the Chicago branch of the Favorite Stove & Range Company of Piqua, O., announces that on and after April 27 its warehouse and offices will be found at 83 E. Kinzie St., opposite the C. & N. W. R. R. depot. The new location gives the company many advantages which have not been enjoyed in the past and affords vastly improved facilities for handling the company's business and for giving due attention to customers. The company's line includes Favorite stoves, ranges and holloware, refrigerators, hot plates, ovens, stove and lamp tubing, furnaces, etc.

The Troy Nickel Works, Albany, N. Y., adopts a personal and humorous tone in its latest circular letter to the trade, urging recipients to send in their orders for Alaska stove knobs, without delay. A pertinent comparison is made between stove knobs as an adornment to stoves, and the essentials to the wardrobe of a fashionable dresser. The letter is one of the sort that will command more than a passing glance. Its brevity and handsome appearance are especially commendable.

KITCHEN APPLIANCES.

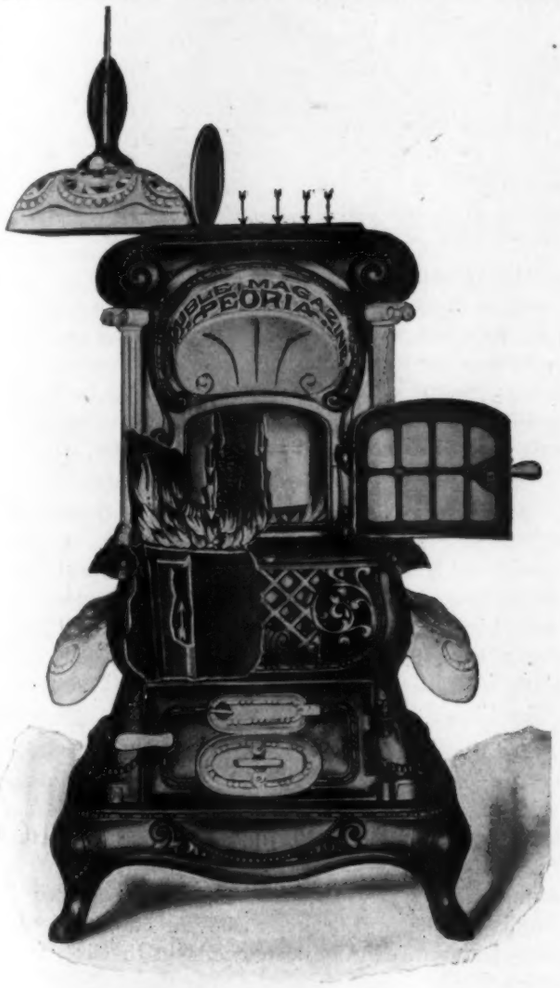
Kitchen Appliances is the title to a large and splendid 1908 catalogue by The Born Steel Range Co. of Cleveland, Ohio. This is an exceptionally excellent catalogue for numerous reasons. In the first instance it may be said to be a complete compendium of modern up-to-date steel ranges, singles, doubles, triples, quadruples and batteries, for coal, wood, gas and all fuels, and in combinations of fuels, including the swellest and most highly perfected forms of charcoal broilers, and with these are shown special grates, gas burners, water heating appliances, tanks, pastry ovens, steam carving and serving tables in wonderful variety of capacities and formations, coffee urns, tea urns, hot water urns, in singles, doubles, combinations and batteries, from the simple forms to the most elaborate, in wonderfully great capacities. There are also shown the most modern types of cast and steel plate steam cooking devices for all possible purposes, and a marvelous display of Born's ingenious complete and indispensable kitchen outfitting appliances that deal with fire, water, ice and all the elements, processes and conveniences of kitchen work in modernized form, and this assembly is made complete by a vast assortment of kitchenware and utilities in tin, enamel, copper, iron, steel, aluminum and nickel that offers a splendid climax to an already complete and wonderful kitchen outfitting display. There is shown in every department the requirements complete for the care and outfitting of capacities running from the home needs in perfected form to the most extended needs of hotels, restaurants, sanitariums, hospitals, etc., of even the greatest magnitude and of the most complete and perfect outfitting.

The Born goods are known wherever complete and perfect work of this order is required. Its steel range assortment is not alone popular in its larger dimensions but is altogether popular in hardware stores and in families, where its general excellence has long since found favor, and where its conveniences, advantages and enduring worth has established itself. The catalogue is not only a splendid affair in its display of wares, but it is a most complete example of excellence in its illustrations, its arrangement and the very good descriptive text which gives to one a complete understanding of all to which in various forms it relates.

The volume contains 150 pages. It is 10½ x 7½ inches in size, opening the long way of the leaves. It is printed upon heavy white surfaced paper and its printing and illustration claim attention for their beauty and perfection. It is under a heavy rich tobacco brown cover of flexible board richly embossed. A feature of the work is a full page view of the company's enormous plant at Cleveland. In addition to this splendid volume the company issues other attractive trade literature. In writing, kindly mention THE AMERICAN ARTISAN.

DOUBLE MAGAZINE PEORIA.

The Double Magazine Peoria base heating stove is presented with many advantages for stove dealers and many new and valuable features that will be found most attractive to final buyers and users. It is repre-



"Double Magazine Peoria."

sented as a perfect burner of hard or soft coal, lignite or slack. It has double magazine arrangement with provisions for keeping cool the magazine contents, while a peculiar down draft provides for the complete utilization of all gases and smoke for heating elements, and its new and original Culter & Proctor "Perfect Circulation" fire-pot insures perfect circulation and combustion at all times and keeps the base good and hot. The equipment includes an original ball-bearing grate, with a revolving center that offers peculiar advantages. The sectional illustration of the stove by the descending arrows at its top and in the jacket of the magazine indicate the fresh air current descending upon the fire surface providing a gas consuming blast, and the ascending arrows in the double fire-pot indicate the rising air current which is led to the fire surface to aid in the complete consumption of all the fuel elements in proper form. The ornamental features of the Double Magazine Peoria are excellent, both as to the rich black iron detail and the tasteful and excellently applied nickel features. The stove is splendidly built and mounted and its fittings in such situations as it is required are perfectly ground to correct air-tight conditions. It gives excellent promise of being one of the heating winneros of the year. The Double Magazine

Culter & Proctor "Perfect Circulation" Fire-pot.

Peoria heater is a new offering by The Culter & Proctor Stove Co., 200 Water street, Peoria, Ill. Good literature and good pictures upon application. In writing, kindly mention THE AMERICAN ARTISAN.

RANGE MAKER'S COMBINED PUNCH, PRESS AND SHEARS.

A combined range makers' multiple punch, press and shear, manufactured by Geo. C. Keene & Company, of Cincinnati, O., is an item that will be of much interest to steel range makers in particular. This is a machine that is designed to cut, punch and shear No. 10 or lighter gauges of sheet steel. It is equipped with gang punch dies for blanking out oven doors and draft clean-out holes, and forming dies for steel ranges are fitted into the machine, thus, by their use practically all of the sheet metal work on steel ranges is accomplished by the one machine. There is used on the machine a powerful clutching device which is very simple and not at all liable to get out of order, it works automatically without springs and the item of wear and noise are largely eliminated. Suitable gauges are provided at both front and rear and in cutting or punching sheets the sheets are fed from side to side or from front to rear through frames that are provided. The machine is made in three sizes, namely, of 3, 4 and 6-foot dimensions. Steel range manufacturers and others whose work is along similar lines will find this machine a very interesting one. Literature and illustrations may be had upon application to the manufacturers as above indicated. Kindly mention THE AMERICAN ARTISAN.

The Hardware Record.

THE AMERICAN ARTISAN AND HARDWARE RECORD is the only publication containing western hardware and metal prices corrected weekly. You will find these on pages 32 to 37 inclusive.

The Columbia Shear Co. of Reading, Pa., will build a one-story brick addition, 40 x 47 feet, to its plant on Laurel avenue, in Reading.

The Pryor Mfg. Company of Chicago, Ill., has been incorporated by John Sanditz, Samuel A. Ettleson and Chas. Weingeidl. The company will make metal specialties. It is capitalized at $50,000.

The Natural Wire & Metal Mfg. Company of Oklahoma City, Okla., has been incorporated by J. M. Marsh, A. E. Seamon, G. Miller and J. Eacock. It is reported that the capitalization of the company will be $500,000.

The Barker Hardware Company of Barker, N. Y., has been incorporated with a capital stock of $16,000. The company will manufacture hardware and specialties. The incorporators are Bert A. Coleman, Wallace Coates and James Margan.

C. E. Jackson, Theodore Ekman and E. D. Reynolds, all of Rockford, Ill., have incorporated the Rockford Lawn Mower Company. As indicated by the title, the company will manufacture lawn mowers. The company is capitalized at $10,000.

The Cotton Combination Tool Co. of Kittery, Me., has been incorporated with a capital stock of $50,000 for manufacturing and dealing in tools. The officers are: O. Sumner Paul, president, and Albert H. Peavey, treasurer, both of Kittery.

Exclusive jobbing representatives in the West and Northwest are wanted by the Paxton & Gallagher Co. of Omaha, Neb., for the "One Minute" washer—an easy-running, and as its name would indicate, an exceptionally rapid washing machine.

The Rotary Washing Machine Co., St. Louis, Mo., announces that its "Rotary" washer is meeting with a most satisfying reception, and that users proclaim it unequaled in style, finish, durability and the ease with which it is operated. This washer is sold on the exclusive agency plan.

Through a readjustment of its business affairs the Charlotte Hardware Company of Charlotte, N. C., which has heretofore been known as a retail concern, has increased its capitalization to $125,000, and will engage in the wholesale hardware business. The company will not abandon the retail feature of its business.

The Clauss Shear Co., of Fremont, O., has resumed operations after having been closed several weeks owing to a strike of the finishers. It is reported that the differences between the management and its operatives have been adjusted, and that the 300 men who were temporarily out of employment have returned to work.

A. Wilder, trustee for the J. S. Groover hardware stock, at Mexia, Texas, on April 4 received offers from different firms in the state for the hardware stock which had been duly advertised for sale. The stock was sold to Hume & Meyer Co., of Rockdale, Texas, for 63 2/3 cents on the dollar. The entire stock has been packed and shipped to Rockdale.

The Penn Hardware Co., Reading, Pa., has arranged for the erection of a steel trestle bridge across the canal which borders its property, for increasing its facilities in handling freight. The new trestle will make it possible for freight cars to enter the company's yards at Spruce street. The Penn Hardware Co. is running on full time, and a steady increase in orders is reported.

An enviable sales record is that of the Shrp Shavr Razor Co. (Smith & Hemenway Co.), 108-110 Duane street, New York, which reports that it sold 260,000 "shrp shavr" safety razors in the first three months of 1908. "It's all in our blades," is the company's slogan, and the sharpness and fineness of these safety razors indeed indicate the attainment of scientific perfection in this particular.

The Sycamore Wagon Works, 109 Edwards street, Sycamore, Ill., exploits a hardware delivery wagon which it claims can be absolutely depended upon, and the durability of which it guarantees. The wagon body is 20 inches from the ground, and is of full width. The wheels are of regular height and yet will turn short. It is said that the wagon can be loaded or unloaded with perfect ease.

The Denning Wire and Fence Co., Cedar Rapids, Iowa, is prepared to ship mixed cars of woven fence, barb wire and nails. The Denning fence for yard and pasture is favorably and widely known, as is also the same company's "peerless" cable fence with barb wire in the bottom for turning hogs. Catalogue and price lists will be furnished to inquirers, who are asked to mention THE AMERICAN ARTISAN in writing.

Dealers who propose to keep abreast of the times will do well to write for the latest catalogue of the William Schollhorn Co., New Haven, Conn., manufacturers of Bernard's patent tools. Among the articles included in the catalogue are pliers, nippers, spring belt and ticket punches, bolt clippers, dividers and hardware specialties, under the "Bernard," "Paragon," "Elm City," "Lodi," and "Excelsior" brands.

There comes from Manchuria a request for information, prices, etc., relating to builders' hardware, galvanized sheets, wire nails, locks, rubber goods and building materials generally of American manufacture from Bardens & Co., 215 Oku-Machi Nichome, Tairen, Manchuria. Correspondence may be conducted in English. The firm desires to be put into touch with manufacturers of American goods in the lines indicated.

Four styles of lawn mowers are represented in the "Big Four Combination in Lawn Mowers" to which the Philadelphia Lawn Mower Co., 3101 to 3109 Chestnut street, Philadelphia, is attracting the attention of the trade at this season. The mowers are made with 6½ to 12 inch wheels, and three to eight blades, and all genuine products of the company may be recognized by the words "Philadelphia Lawn Mower Co." cast on the wheel.

The Western Hardware & Lock Company, which is now established at Los Angeles, Cal., has been offered a site for a new plant in what is known as the

Long Beach Harbor Tract. It is stated that the company made an offer some time ago to remove its plant from Los Angeles if a suitable site was provided for it accompanied by a bonus of $8,000 in cash. As yet it has not been stated whether the company will accept this late offer or not.

The White Lily Manufacturing Co., 1500 Rockingham road, Davenport, Ia., is prepared to give exclusive agencies for the White washer, for which it claims the "highest speed and greatest ease of operation" of any washer in the market. Some of its characteristics are its double ball bearings, its fly wheel under the tub, the foot power attachment, and the fact that the tub can be opened when the machine is in full motion. It is sold under a five years' guarantee.

Miss Jennie Milner of Bloomington, Ill., daughter of J. B. Milner, formerly of the Milner Hardware Co., of Bloomington, Ill., who died in 1902, following which the hardware business was disposed of and sold out in a general way, writes to advise us that a considerable amount of mail matter is still coming addressed to the old concern, and she suggests that some means be taken to make known the fact that the J. B. Milner Hardware Company of Bloomington, Ill., no longer exists in any form, and in this connection it is requested that in the future such mailings be discontinued.

The formal invitation to the second annual meeting of the Mississippi Retail Hardware Association, to be held at Greenwood, Miss., on May 11 and 12, 1908, is tastefully and excellently executed, typographically and otherwise. It is in folded form 7¼x6½ inches in size upon rough deckel edged paper with envelopes to match. The officers of the association are as follows: P. T. Pegues, of Winona, president; D. H. Hale, of Aberdeen, vice president; Mallory Davis, of Itta Bena, second vice president; John E. Sommers, of Clarksdale, secretary and treasurer. Executive committee—Gus Bain, of Ackerman; G. A. Wettlin, of Woodville.

Enterprising retail hardware dealers who have gone into the work have discovered that annual catalogues mailed to farmers and to patrons and prospective patrons are bringing successful and satisfactory results. We learn that McNutt & Musgrave Bros., of Huntsville, Ill., have recently issued their third annual catalogue, which was distributed to farmers and others within a radius of ten miles of Huntsville. The catalogue is gotten up in a manner that is altogether interesting and attractive and it is admirably designed to appeal to prospective buyers to whom it has been addressed. A feature of the work is in the notification that the firm's store may be made headquarters by visitors to Huntsville and that conveniences will be provided for the entertainment of guests of this class.

The annual meeting of the Texas Hardware Jobbers' Association was held in San Antonio, Tex., covering the dates of April 17 and 18. A very large percentage of the members of the association and a much greater number of manufacturers' representatives attended the meeting than has been present at any of the previous meetings of the association. This meeting is regarded as the most profitable and the most interesting one that the association has ever held. The following officers were elected for the ensuing year: Chas. E. Nash, president; E. A. Peden, first vice-president; John L. Keith, second vice-president; R. F. Bell, secretary-treasurer. Executive committee: F. A. Heitmann, Houston, Tex.; G. A. Trumbull, Dallas, Tex.; W. L. Sanford, Sherman; R. L. Penick, Stamford. The time and place for the next annual meeting was left for arrangement by and to the decision of the Executive Committee.

An interesting and well arranged booklet of envelope size is published by the H. F. Brammer Mfg. Co., of Davenport, Ia. The booklet relates to family washing machines which are the product of the company. The booklet contains 32 pages and cover. A very good illustration of the company's works is shown upon page 1, and the succeeding pages illustrate and describe the great variety of washing machines that are offered by the company. These are in round tub and square boxed formations. Excellent descriptive matter accompanies very good illustrations in the text of the little volume, and in connection there are shown complete assortments of repairs for all of the different washing machines and these are presented in illustrated and descriptive forms. The volume is nicely gotten up. It is under a heavy paper cover in deep canary tone, and both the body and the cover are nicely printed in red and black effects.

THE AMERICAN ARTISAN HARDWARE WINDOW CONTEST.

The American Artisan Prize Hardware Window Display Contest, which after having been open to competitors for a long period and which closed upon the first day of the current month, proved to have been the most interesting event of this kind that has been conducted along these lines.

Naturally owing to the widespread publicity which was given to the contest and to the favorable conditions that were provided for the government thereof an unusually large number of photographs of window displays were entered by hardware dealers for consideration. The arrangement provided for the examination of these exhibits in accordance with the conditions provided by the terms of the contest necessitated the careful selection by a corps of three competent judges of exhibits of this character and to these gentlemen was entrusted the entire decision as to the first, second, third and fourth degrees of excellence found in the photographic exhibits and this was brought about in a manner which allowed the judges no opportunity of knowing from whence or from whom came any one of the great volume of photographs which they handled.

A very careful examination of the photographs discloses the fact that as a whole the collection is of an order of excellence far in advance of photographs that usually are presented in contests of this nature. There is to be found in this collection quite complete evidence that the hardware trade has, in the matter of display window dressing improved and progressed with great rapidity during very recent years, both as concerns practical selling ideas as expressed in matters of this nature and in general artistic excellence along these lines, to a highly encouraging degree. It is grat-

ifying indeed to discover this progress which has been so much desired and which is bound to prove so thoroughly valuable to merchants who have interested themselves in this endeavor. In connection with the line of practical awards the very high character of a great number of the exhibits so deeply impressed the judges in the contest as to induce them to set aside a supplementary list of exhibits, thirty-seven in number, the excellence of which entries were such as to command unusual interest and consideration, and these were given Honorable Mention.

Reviewing this matter entirely outside of the prize awards it is quite generally conceded that each of the contestants and each hardware dealer who, through the instrumentality of THE AMERICAN ARTISAN'S efforts, has been induced to make a try at the betterment of his store windows has improved his individual interest greatly and has materially bettered his own trade conditions thereby.

The prize awards followed the judges' decision almost immediately and we now take pleasure in presenting in this manner the letters of acknowledgements received from the prize winners. The letters here follow, in the order of the prize awards, namely, first, second, third and fourth.

The following letter is from the winner of the first prize of $50 in THE AMERICAN ARTISAN Prize Hardware Window Contest, which closed on the first day of April, 1908:

To THE AMERICAN ARTISAN:

I have received your letter and also your remittance of $50, covering the date of Saturday, April 11, and I thank you very much for it. My thanks are also due to Mr. Warner, of the Warner Hardware Company of this city, who a half a year ago kindly took me into his employ. It is my intention later on to take charge of my father's store in Germany. I came to this country thirteen months ago for the purpose of getting some new ideas. I at first worked at the store of the Hibbard, Spencer, Bartlett Co., in Chicago, and later joined my uncle in Hutchinson, Minn., and at that time I had decided to go back to Germany again in July, but I succeeded in securing a position with the Warner Hardware Company here in Minneapolis. The very kind and helpful treatment and the appreciation of my work which I enjoyed here from the very first day made me a more willing worker than I believe I ever was in Germany. Permit me to again thank you for the pleasure that has been occasioned me in securing the first award in your contest, and for the pleasure that your remittance has given me, and permit me to assure you that I will never forget this great country where I have found more appreciation in a half of one year than I had received in the old country in six years.

Yours very truly,
MARTIN JENTER,
With Warner Hardware Co.

Minneapolis, Minn., April 13, 1908.

The following letter and acknowledgement is from the winner of the second prize:

To THE AMERICAN ARTISAN:

I am pleased to acknowledge receipt of your letter of the 10th inst. with remittance of $25, which has been awarded me as the second prize in your Prize Hardware Window Display Contest. Kindly accept my heartfelt thanks.

Wishing you many years of prosperity, and hoping soon to see the photographs by other contestants reproduced in your most valuable publication, I beg to remain, Yours very truly,

B. W. HAVERFIELD.

Fort Worth, Tex., Apr. 18, 1908.

The following letter and acknowledgment is from the winner of the third prize:

To THE AMERICAN ARTISAN:

Your favor of the 10th inst. has been received, enclosing the remittance to which you inform me I am entitled as the winner of the third prize in THE AMERICAN ARTISAN Hardware Window Display Competition. Will you kindly accept my thanks for the same? I feel very grateful for coming into the "prize ring" through this endeavor. I should have been duly thankful even to have found a place in the "Honorable Mention column," for I fully realized what I was competing against judging from the locations and standings of the other windows indicated in the list shown in THE AMERICAN ARTISAN of April 11.

I will appreciate it very much if you will send a copy of THE AMERICAN ARTISAN of April 11 to each of my brothers, as follows: John B. Moseley, Owensboro, Ky., and H. F. Moseley, Alton, Ill. Again thanking you for the prize money which has been duly received and thanking each of the judges for their decisions which perfected the award, and wishing you very great success, I am

Yours very truly,
B. G. MOSELEY.

Mason City, Ia., April 12, 1908.

The following letter and acknowledgment is from the winner of the fourth prize:

To THE AMERICAN ARTISAN:

"I wish to thank you for your letter of April 10 in which you remit $10, this being the prize money awarded to me by the judges in your recent window display contest. Allow me to congratulate the management of THE AMERICAN ARTISAN for the progressive policy which it is pursuing. I believe that an occasional contest of this kind stimulates an immense interest in the art of show window decorating throughout the hardware fraternity which can only result in the uplifting of this much neglected branch of store decorations. If we compare the hardware windows of to-day with those of a few years ago, we will notice a marked improvement. This is certainly a step in the right direction, and in my estimation it is largely due to the fact that the trade journals are constantly agitating the subject in one way or another.

I did not expect to win a prize as I considered my display only a very ordinary one and I will admit that it required only a slight effort and no expense to install it.

Again thanking you for the prize and hoping that the pictures you received will be of great benefit to you, I remain, Respectfully yours,

ADOLPH G. DROEGKAMP.

Milwaukee, Wis., April 15, 1908.

THE BISHOP HARDWARE CO.

The interior of the main salesroom of the retail hardware store of the Bishop Hardware Company of Dowagiac, Mich., is in the clear 100 feet long and 22 feet wide. The additions to the store where stock is stored, where vehicles are kept, where carriages and implements are kept and large spaces otherwise similarly utilized are to be found in additions, and of course, cannot consistently show in a single picture. This photograph is taken from the front of the store. The large sign high on the wall at the right is an attractive Jap-a-lac sign. The goods so richly displayed in the show cases running from front of observation to the rear are in the order of their occurring, Cutlery, Carpenters' Tools, Nickelplated ware, Builders' Hardware, Silverware and so on until they become indistinguishable. The cans on the top at the left are oil cans, and creamery cans. The enclosed shelf boxes are, of course, packed with hardware items in such order of convenience as suit the requirements of the company.

Store of Bishop Harkware Co. at Dowagiac, Michigan.

At the right are shown Round Oak Stoves and Ranges, washing machines, steel ranges, harnesses, blankets and harness equipments, and upon the shelves are disposed granite ware and tin ware, roasters and other items suitably disposed. The office of the store is a convenient and pretty one at the right and rear and is therefore not observable. The company employs four bright clerks upon the main floor and also employs constantly two practical tinners. A splendid large cellar full of goods is beneath this store room, the stairway to which is at the left but out of sight. In the finish of the room it may be well to know that the ceiling is of pressed steel of rich design and handsomely colored and the side walls are richly papered. This may be regarded as a highly typical, modern retail hardware store of the prosperous and flourishing kind.

A SPLENDID SOUVENIR.

A distinctly useful and most perfectly designed and executed souvenir offering is by the Rock Island Tool Co. of Rock Island, Ill. It is in two parts and assumes two forms, one for pocket convenience, in which it appears as a spiraled wire surrounding a central shaft, with two perfectly finished hexagon bolt heads as ending terminals. But for action, for utility, the central pointed pin is withdrawn. The spiral becomes a strong perfect corkscrew and the strong pin inserted in a hole in a hexagon screwhead completes one of the prettiest, brightest and most convenient and attractive screwdrivers imaginable. When closed for the pocket the entire device is a simple roll of a little over a quarter inch diameter and but three and a quarter inches long. The device is perfectly finished and is bright in polished nickel plate. It is a splendid conceit and is so useful for opening mucilage bottles, ink bottles and medicine bottles, and "there are others." It's a nice

souvenir and is quite well worth sending for. The Rock Island Tool Co., Rock Island, Ill., manufactures superior vises and tools. In writing, kindly mention THE AMERICAN ARTISAN.

RETAIL HARDWARE DOINGS.

NEW FIRMS AND INCORPORATIONS.

Norfolk, Va.—The hardware firm of Armstrong-Barrows Company has been incorporated with a capital stock of $10,000.

Lafayette, Ala.—Brock & Pate Hardware Company incorporated with a capital stock of $7,000.

Jacksonville, Fla.—The Jacksonville Hardware Company incorporated with a capital stock of $10,000.

Imlay City, Mich.—C. A. Cornell has opened a hardware store.

Dalton, Neb.—W. S. Wooley has opened a hardware store.

Oriska, N. D.—The Walsfeld-Brower Hardware and Implement Company has been incorporated.

Hanford, Wash.—The Enyeart Brothers Hardware Company has opened a store here.

Atoka, Okla.—The Atoka Hardware Company has incorporated with a capital stock of $10,000.

BUSINESS CHANGES.

Bronaugh, Mo.—J. J. Doores has sold his hardware store to N. Satterlee.

Peoria, Ill.—Rollin Wheeler has purchased the hardware business of Wheeler & Company.

Sterling, Ill.—A. A. Peterson succeeds H. T. Jansen in the hardware business.

Milbank, S. D.—Carl Anderson has purchased the O'Leary & Cahill stock of hardware.

Barnesboro, Pa.—John T. Musser is succeeded by Musser & Gale in the hardware business.

Havensville, Kan.—Witter & McKee succeeds Logan Brothers in the hardware and implement business.

MISCELLANEOUS.

Fullerton, Cal.—E. L. Dean's hardware store was damaged by fire.

Ypsilanti, Mich.—H. A. Palmer has moved his hardware stock into the Van Tuyl store.

Montgomery, N. Y.—Alfred A. Bulmer is reported in voluntary bankruptcy.

Milwaukee, Wis.—A. E. Redford, hardware dealer, is reported in involuntary bankruptcy.

Walters, Minn.—The Peterson Hardware Company of Albert Lea has opened a branch store.

OBITUARY.

Wm. H. Hahn.

Wm. H. Hahn of St. Louis, Mo., who was engaged in the hardware business at 1530 Olive street, St. Louis, for a number of years past, died at his home in St. Louis on Monday, April 13, at the age of 44 years. It appears that Mr. Hahn retired at night in an apparently normal condition of health, and that died during the night without giving any alarm and it is presumed that he died without awakening. At breakfast time a call was sent to his room and it was discovered that he had passed away. Mr. Hahn was known as a successful business man. In political affairs he was twice chosen as Recorder of Deeds for St. Louis and the county. He was the president of the St. Louis Retail Hardware Association for two terms. At the time of the holding of the recent National Retail Hardware Association's convention in St. Louis in March he was absent upon a fishing trip but hurried home to St. Louis to be in attendance at the association's convention and to greet his many friends connected therewith. Upon the day of his funeral, through a concert of action among all of the retail hardware dealers of St. Louis among whom he was greatly respected every hardware store in the city of St. Louis was closed as a mark of respect to the deceased, and the proprietors and employes of a great many thereof personally attended the funeral. He was born in St. Louis on February 18, 1864. He was educated at the St. Louis public schools. He leaves a wife and son and a very large circle of warm friends to whom his death will be a distinct loss.

W. T. Leckie.

W. T. Leckie, an official of the Estate of P. D. Beckwith, Inc., manufacturers of stoves and furnaces at Dowagiac, Mich., died in Kalamazoo, Mich., on April 12 after an illness of many weeks duration. Mr. Leckie was well known to the hardware and stove trade in the states of Indiana and Michigan. He was also widely known in the state of Michigan as a speaker of considerable repute. He was a Loyal Knight of the Michigan Elks. He was Past States Deputy thereof and was also Past Exalted Ruler of the society's Dowagiac lodge. Mr. Leckie was a gentleman of refined accomplishments. He was most genial and companionable and his very many friends will deeply regret to learn of his demise. The interment was at Dowagiac, Mich.

Chas. Merrill.

Chas. Merrill, first vice-president of the hardware corporation of Holbrook, Merrill & Stetson of San Francisco and New York City, and for forty years past a resident of Brooklyn, died on April 17 at his home, 316 Clifton avenue, Brooklyn, of apoplexy at the age of 69 years. Mr. Merrill was well known in hardware circles. He was a member of the Universal Church, a member of the Oxford Club, the Crescent Athletic Club and the Montauk Club. He was born at Hallowell, Maine. He is survived by a widow and three daughters. The funeral services were held at the home and the burial was at Greenwood Cemetery.

Isaac Williamson.

Isaac Williamson, who for more than 30 years past was a prominent hardware merchant in Angola, Ind., died at his home in Angola, on April 7, at the age of 66 years, as a result of illness of several months duration. He was a veteran of the Civil War, having served through its entire period and his record as a soldier is a splendid one. Mr. Williamson was highly respected in his community as a man of honor and as a successful merchant. He was buried on April 9. The interment was conducted under the auspices of the Grand Army of the Republic.

Martin A. Johnson.

Martin A. Johnson, prominent as a farm wagon manufacturer, banker, and merchant at Stoughton, Wis., died suddenly on April 8. He was a highly successful business man and was highly regarded in the section of Wisconsin in which he was located. He was a brother of Mr. Chas. P. Johnson of the Dover Mfg. Co., of Canal Dover, Ohio.

Advertising Department

Our readers are invited to send in copies of their advertisements in the local press for criticism. All communications should be addressed to the "Advertising Department" of THE AMERICAN ARTISAN.

In local store advertising such as is done by retail merchants in newspapers in towns and smaller cities, the advertisers should keep in mind the fact that it is highly important to keep advertisements renewed and freshened up frequently with new thought, new illustrations, new arrangements and new offerings. The failure to attend to these details of advertising not only permits advertising to become stale and to fail to attract attention but it indicates as a rule a distinct lack of attention on the part of the advertiser and it loses opportunities to double up on invitations and to continue the interests of the paper's readers.

The advertisement by Goble, Pratt & Robbins of Spokane, Wash., is a correct and excellent range advertisement. The query in the ad is timely, suggestive

and inviting. The description of the range is compact and quite complete. The type selections and the general arrangements could hardly be bettered. The enclosed section which forecasts the weather for the day is a feature that no doubt interests readers generally and it invites direct attention to this advertisement as it may appear from day to day. We consider this a model advertisement. It occupied six inches, double column, in the *Evening Chronicle*, of Spokane, Wash.

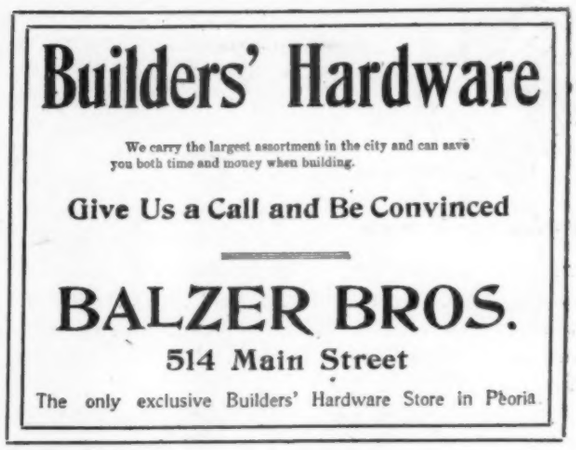
* * *

The advertisement of Tom Barbee is interesting. It announces the fact that Mr. Barbee has opened a new tinshop and it discloses the fact that he is wise enough to start out immediately in the matter of letting his business light shine. His is a good advertisement, not because any effort has been made to embellish it or to do fancy work in it, but because it tells a splendid plain story about Tom's new tinshop behind the buggy company's building and because in a manly way it tells the people of his town just what he is prepared to do, and the story is so good and brief that we cannot fail to believe every word of it even at this distance, and after all this is the real essence of good advertising. Mr.

Barbee has started out well and it is to be hoped that he will continue in the effort and secure the reward to which he is entitled. This advertisement occupied three inches single column in the *Owensboro Inquirer* of Owensboro, Ky.

* * *

Balzer Bros. of Peoria, Ill., offer in their advertisement which is reproduced herewith a thoroughly excellent ad. for its purposes. It is an invitation to buyers of builders' hardware to come into Balzer Bros. store and be convinced as to the size of their stock of builders' hardware and the opportunities of saving money there. As will be noted the advertisement is very neatly put up as relates to the typography and the arrangement and the distribution of the white



space is wholly consistent and good. This advertisement occupied five inches, three columns wide, in the *Peoria Transcript* of Peoria, Ill.

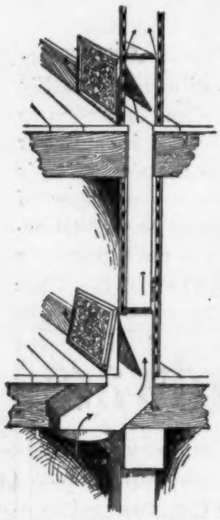
Go through your stock and determine how much money you have tied up in unnecessarily big quantities.

Heating and Ventilating

SCHWAB SIDE WALL REGISTERS.

As an item of evidence that the R. J. Schwab & Sons Co., of Milwaukee, Wis., propose to keep well ahead in the front row in the matter of progressive undertaking, we take pleasure in noting the fact that the company is showing interesting advanced designs in side wall furnace heating registers of its own planning and its individual manufacture. The first illustration herewith shown represents a double header heating arrangement in 11x14 or 12x15-inch Schwab side wall registers, planned for the purpose of heating two rooms upon a first floor in a manner which accomplishes this purpose without reducing the size of the register box collar. As it is becoming more and more evident as time progresses that the modern deflecting side wall heating registers has not only come to stay, but has come to supplant the older forms of heating registers that heretofore have been used in floors the attention of merchants who have to do with this class of wares is naturally directed to the new, popular and effective method by which furnace heat is correctly distributed through side wall operating devices. In the Schwab product the deflector is of sheet steel, properly turned at its edges to strengthen it, while the deflector in itself remains light and duly serviceable. A regulating device consists of a small wheel upon the face side of the register and a cast screw and socket attached to the deflector. These operating together constitute a positive and certain regulating device, the operation of which is entirely noiseless and which permits the permanent adjustment of the deflector at any point between full open and full closed. This very ingenious device is attracting much attention among furnace men and furnace register buyers.

Double Header Arrangement.



Heating Plan by Single Stack.

The second illustration herewith relates to the method of applying the registers to the upright stack. It shows the 11x14 or the 12x15 Schwab's side wall register arranged to heat one room on the first floor, and a No. 8 or No. 9 register of the same make arranged to heat a room on the second floor, with both register let into the single stack that leads from the basement. There are many advantageous and interesting features connected with the side wall register product by the R. J. Schwab & Sons Co. A pretty and thoroughly comprehensive booklet goes into this matter very extendedly. Copies of the booklet may be had upon application to the company free of charge by addressing as herein indicated. In writing kindly mention THE AMERICAN ARTISAN.

SUPERIOR CATALOGUES.

Some superb catalogues by the Detroit Heating & Lighting Co., of Detroit, Mich., relate to gas and combination lighting fixtures and to electric lighting fixtures, and a very pretty booklet which accompanies them is entitled "Light for Evening Hours," and relates to the theory and practice of modern lighting along lines which connect the dim and indifferent past to the sharp realities of high grade modern possibilities of successful and economical lighting. The fixture catalogues are as rich, tasteful and beautiful as the highest skill and the most correct art and practice can make them. They may be said to be superb catalogues and their text matter is cleanly and comprehensively arranged in a way that indicates genius and intelligence at the head of the department which directs this order of affairs. In point of illustration both of them are photographically exact. In the printing of both of the works there appears to have been nothing left to be sought for or to be desired. We congratulate the company upon these very successful productions. In the pretty booklet referred to there is provided an extended and wonderfully well written treatise upon the company's combination gas machines which have been so very favorably received and have become so altogether popular throughout the country. The theory upon which this particular machine has been built has stood all of the tests and has worked out successfully at all times and often under the most unfavorable conditions. The booklet goes into the subject of this machine very thoroughly and provides reference to its different dimensions and capacities from the twenty burner plant to the one thousand burner plant and in connection with each, dimensions, shipping weights and other items of information are provided. Information relating to the lighting plants and such other information as may be required may be had from the company as herein indicated. In writing kindly mention THE AMERICAN ARTISAN.

HERO FURNACES.

Hero Furnaces are by the Chas. Smith Co., 101 E. Lake street, Chicago, Ill. Hero furnaces are cast iron structures, to the planning and development of which there has been given much attention. They are of the corrugated cast body type both as to their fire pots and dome sections, and thus there is provided not only exceeding strength and durability but an increase in radiating surface that is so very desirable. In their preparation a large cast return ring radiator is utilized and this exteriorally as to the ring surface in connection with the large dome section and fire pot provides for the utilization of the products of combustion with a completeness that leaves little if anything to be desired. Mr. Chas. Smith of the com-

pany is reputed an expert upon matters of furnace construction and in the matter of hot water combinations for furnaces he is thoroughly well known as an inventor and an advisor. Naturally then the Hero Furnace is well adapted for the auxiliary provision which may be had in several original forms in connection with the "Hero." The Hero furnace is built upon strictly modern lines and among its features that of liberal capacities is at once recognized. Its ash pit is a very large one with a large door and ample air regulating registers. Its grate arrangement is in the four bar triangular separate section pattern, its feed door is large and convenient, the dust flue device is ingenious and practical and the ring radiator clean-out door is well located and of ample proportion. Hero furnaces have been upon the market for a sufficient length of time to demonstrate their complete practicability and to put themselves into excellent demand. Hero furnaces are made in many styles and sizes and are adapted to all kinds of fuel. Good Hero furnace literature may be had upon application by addressing the company as herein indicated. In writing kindly mention THE AMERICAN ARTISAN.

FLORAL CITY WOOD FURNACE.

The Monroe Foundry & Furnace Co., of Monroe, Mich., has in its furnace line a good type of wood burning furnace that may be adapted for soft coal uses, although it may be said to be essentially a wood furnace. This furnace is one of the oldest of its kind on the market, and in this it may be said to be an example of the "survival of the fittest" for the reason that it has lived and prospered while its contemporaries have perished and become forgotten. In its construction it is so designed as to permit the burning of full sticks of cord-wood, and this feature will be recognized as one of no small importance. In its shape as presented at the present time this wood-burning furnace appears in what seems to be a modernized condition as it embodies an excellent type of rounded dome and a splendid large return radiator encircling the dome. The main combustion chamber of cast iron is presented in two large sections of heavily corrugated cast plate bolted together, above which at the back end the dome is affixed. The combination of the body, the dome and the return radiator presents an enormous amount of radiating surface and the provisions for circulating the heat product is such as must provide a highly heated condition for all the parts. The general construction then must be regarded as a superior one. A feature of the construction is in a necessitated large casing for the body requirements and therefore a liberal allowance of interior room for the expansion of the heated air and thus for its proper distribution. In its equipment the Floral City Wood Furnace runs to modern utilities in its ash pit, its feed door section, its interlining, its clean-out provision, its casing and basing and other important features. It gives evidence of being a splendid furnace for the purpose for which it is intended. It is made in four sizes, Nos. 10B, 12B, 14B and 16B for 42 and 54 inch wood measurements. To the extent that it applies in all cases it is good to know much about a successful thing. Very good literature and a catalogue relating to this and other excellent furnaces by the company may be had upon application as above indicated. When writing kindly mention THE AMERICAN ARTISAN.

PARAGRAPHS.

W. M. Mackay, secretary, writing from the office of the American Society of Heating & Ventilating Engineers in New York City, advises us that the summer meeting of the society will be held at Niagara Falls, N. Y., on July 24 and 25, 1908. The official program and other details relating to the forthcoming meeting will be arranged later and notification thereof will be given.

Mr. Chas. Smith of Chas. Smith Company, furnace manufacturers at 101 Lake street, Chicago, whose recent departure upon a Southwestern trip in search of health and recreation was commented upon in these columns, has after a lapse of a little more than eleven weeks returned to the activities of business life fully refreshed and reinvigorated and in all respects greatly improved in health. Mr. Smith may be hereafter found at the old stand among the "Heros" and other furnace devices.

GALVANIZING WITH ZINC-ALUMINUM ALLOY.

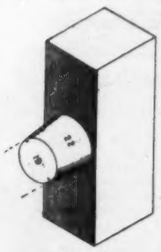
In order to get a galvanizing bath that shall be quite limpid and yield a brighter surface than is attainable by the use of zinc alone, Guhrs uses an alloy composed of about one-half of one per cent of aluminum, and one-fifth per cent of bismuth with the zinc. In order to get this alloy in proper state of diffusion it is necessary to melt the aluminum at the same time with the zinc; the bismuth can be melted in at the same time if desired. It is claimed that simultaneous melting of zinc and the aluminum prevents the formation of oxide and hard dross. In order to effect this desirable simultaneous melting of these two metals, it is best to prepare beforehand an alloy of zinc and aluminum, or of these with bismuth in stronger proportions of aluminum than is desired in the bath—for instance, 20 parts of aluminum and the same of zinc, with 5 of bismuth, well stirred while melting. This "mix" is to be melted with the rest of the zinc, in such proportion as will give to the resulting melted mass the requisite proportions for the bath. A higher percentage of aluminum can be used than one-half (one two-hundredths of the entire weight), but it effects no improvement above that brought about by the use of the smaller quantity. The bismuth may be used in even smaller quantities than the above-quoted one-fifth of one per cent.

For good country towns and also in smaller cities where the trade of the surrounding farmers and the trade of nearby communities is depended on to keep business moving it is a good plan to offer inducements of various kinds to periodically gather in the outlying people and jolly them up with special sales or special doings. It usually pays well.

Tinshop

FLARING RIM.

The following Flaring Rim Problem is propounded by Geo. Broeker of Beardstown, Ill. The problem is shown in the sketch herewith. A flaring rim is to be fitted up against a sheet metal box as shown. The rim is to be 22 inches at the large end and nineteen inches at the small end and is to be used in the manner indicated in the sketch. This is to be done by triangulation and the old method that is by a sweep. THE AMERICAN ARTISAN will be pleased to receive communications and drawings relating to this problem. What is desired is the pattern development for the flaring rim.



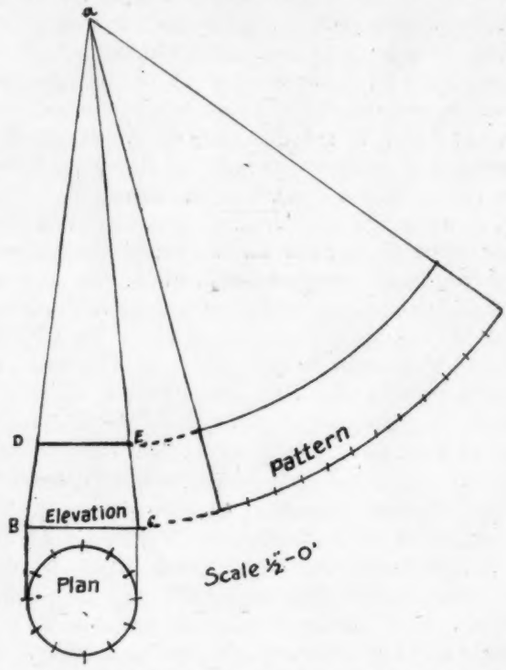
Flaring Rim.

There follows a simple pattern development of the flaring rim proposition above indicated:

To THE AMERICAN ARTISAN:

Herewith I am sending you a simple pattern development for the flaring rim that has been requested through the medium of your valuable paper by Mr. Geo. Broeker, of Beardstown, Ill.

In working up this plan draw a plan and elevation as shown. Then divide the outline of the base into a



convenient number of equal spaces. In the drawing herewith submitted I have divided the base outline into twelve spaces. After this division has been made set the dividers from A to C and mark off the stretchout. After this has been completed step off spaces equal in number to those on the plan and set the dividers from A to E for the upper base and you have the pattern true. Respectfully,

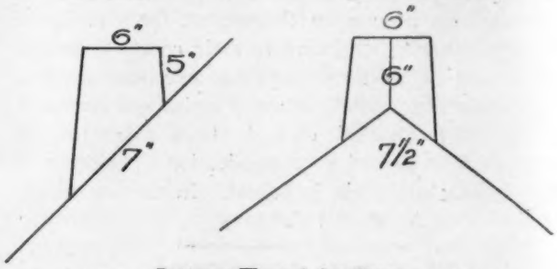
HENRY MEYER.

Beckley, W. Va., Apr. 14, 1908.

SIMPLE PATTERN WANTED.

To THE AMERICAN ARTISAN:

Will you please publish in THE AMERICAN ARTISAN a request to brother tinkers for a snap rule for cutting a roof safe for ¼ or 1-3 pitch, and also a pattern for a roof safe for the cone of a roof. Here in California we make a great many flaring roof plates for safes, and the rules in the tinner's book are too laborious and take up too much time to be sufficiently useful. What I would like to have some of my brother tinks furnish me, is a rule that is short and quick and that will require very little trimming to get the right pitch. We make from 1-6 to ½ pitches. We



Patterns Wanted for These.

often make a 15-inch raise in twelve feet and very frequently make them in two pieces for large stacks the roof plate or roof jacket being made and put on after the stack is put up and in such cases we make them of two pieces. And we made the upper part of the roof jacket or safe lap over the tin about three inches and elamp or bolt them together water tight, especially in the snowy part of California.

Very respectfully,

J. W. CALLAGHAN.

1314 Third street, Sacramento, Cal.

NATIONAL SHEET METAL WORKERS' CONVENTION AT CHICAGO.

The present indications are that the approaching National Convention of Master Sheet Metal Workers, to be held in Chicago next August, will be a monster demonstration.

The association is growing in every direction. Locals are organized in every section of the country and the sheet metal contractors and sheet metal workers of Chicago have already started to make arrangements for the entertainment of the visitors to this meeting.

Two important conferences were held, Tuesday, April 21st, and Friday, April 24th, at the offices of THE AMERICAN ARTISAN in Chicago, at which the leading sheet metal contractors met in conference with Messrs. Paul L. Biersach of Milwaukee, first vice-president; John Bogenberger, Milwaukee, national trustee; representatives of the Chicago Association of Commerce and representatives of the sheet metal manufacturing industry.

The Palmer House will probably be selected as official headquarters, and a finance committee has been selected. Other committees have been arranged for, a program of interest will be prepared and the sheet metal trade of Chicago confidently promise that the entertainment features will be such that the delegates

and visitors to the August convention will ever hold Chicago in pleasant remembrance.

ACME BUCKET VALVES.

To THE AMERICAN ARTISAN.

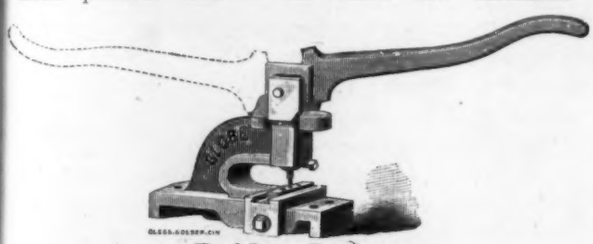
Please inform us where we can get Acme Bucket Valves.

Respectfully,
GUTHRIE SHEET METAL WORKS.

Guthrie, Okla.

A HAND LEVER PUNCH.

One of the smaller sheet metal working conveniences that is offered by the J. M. Robinson Mfg. Co., of 3282-3288 Spring Grove avenue, Cincinnati, O., is herewith illustrated. It is designated by the company as its No. 61 Hand Lever Punch. The operation of the machine is thoroughly simple. It is made of steel entirely and will cleanly and swiftly punch 3-16-inch holes in ⅛-inch iron. It is a clean, compact and very convenient instrument which acts quickly and reliably at all times. In the equipment three punches and a die block are furnished



Hand Lever Punch.

with each machine. This is but one of the many sheet metal working devices in advanced and perfected form that the company offers to the sheet metal working trade. It is one without which a practical sheet metal working department is not complete. Illustrated literature, additional particulars and prices relating to the No. 61 Hand Lever Punch may be had from the company by addressing as above indicated. In writing kindly mention THE AMERICAN ARTISAN.

FIRE POTS AND TORCHES.

The Clayton & Lambert Manufacturing Company, of Detroit, Mich., has been established a great many years. Its business is largely along the lines of manufacturing what are known as Clayton & Lambert fire pots and torches. These fire pots, it will be understood, are soldering and melting fire pots, ingenuously constructed for blast operations with gasolene fuel. They are of the order of fire pots that are adapted to soldering and to lead melting pot uses and for a wide range of other work that follows along in the same general direction. Plumbers and roofers use them very extensively in outside work and for shop work there are few shop situations along the lines of sheet metal work and plumbing that can exist without some instrument of this order. The company here referred to makes a very excellent pot which has come into extended use throughout the United States and other countries. It has been perfected steadily through a course of a great many years and it now may be said to have gone very far beyond its original primitive conditions and to have become a type of the modern ideal device for the purposes for which it is intended. The instruments are thoroughly well made and they are carefully adapted to the uses for which they are built and, moreover, it may be said that not a single device of the kind is permitted to leave the factory without the producers' exact knowledge that it is in absolute perfect condition. A clean and interesting illustrated booklet is issued by the company. It is supplied free of charge. In writing for it kindly mention THE AMERICAN ARTISAN.

THE "CENTENNIAL."

The Centennial Rain-Water Cut-Off is one of those old standard devices that has been on the market a number of years and has proved so faithful, exact and true and correct all of its operation that it has grown into the hearts of the trade in a manner that makes it a part of the tinners' and roofers' daily and weekly program. The device is very simple, and very durable, and its automatic propensity provides for its taking care of itself under all conditions and that is one of the beauties of the device. It is represented as the strongest, most durable and cheapest cut-off in the market and as being the only single cut-off made to fit corrugated and plain pipe and which can be used without extra pipe or elbows. Thus it will be seen that it is distinctly adaptable under many conditions which forbid the use of other instruments for like purposes. The old reliable "Centennial" is manufactured only by Sullivan & Geiger Co., of 19-21 E. South street, Indianapolis, Ind. Good literature relating to it and to other excellent devices may be had upon application. In writing kindly mention THE AMERICAN ARTISAN.

Centennial Cut-Off.

NEW STEEL CEILING PRODUCT.

The W. J. Burton Co., of Detroit, Mich., has put in an equipment for the complete manufacture of steel ceilings. The equipment is already in process of operation and steel ceilings in originally designed patterns are now being turned out by the company. In the matter of sales of steel ceilings the business is not at all new to the company, it having already made a distinct success with the business along these lines and it was because of the growth of this business that the company decided to offer to the trade its own designs and its own productions. In the designing department of the works the company has secured the services of Mr. F. M. Vogan, who heretofore has been employed in the same line as a modeler and designer in work of similar nature in Canton, O. The company originally opened up this department of its business with an equipment of fourteen men. We are advised that this force has been materially increased already and that it is expected to double the force by

the first of May next. Some interesting illustrated literature relating to the new steel ceiling product may be had by the trade on application. In writing kindly mention THE AMERICAN ARTISAN.

MILWAUKEE CORRUGATING CO.

What is represented to be the largest sheet metal works in the middle west is the establishment of the Milwaukee Corrugating Co., of Milwaukee, Wis. For size and producing capacity the company's plant ranks high and for variety of product and excellence of product its position is such as is quite sure to give it thorough confidence in itself. The company produces a line of artistic pressed steel sheet metal ceilings that run in variety of superb designs, and the peculiar features of the intersecting arrangement of the sheet are such as command them highly. In addition to a very extensive assortment of this character the company's product also runs to cornices, skylights, sidings, eaves trough, conductor pipe and other varieties of sheet metal work for exterior and interior use such as may be considered in architectural specifications. The company has a record of thoroughly good work running through all of its departments and the correctness and expedition with which its business is handled gives the company an advantage when large specifications or peculiar specifications are given out. The company is a very strong one. The company is ably and energetically managed and it has made a very remarkable success of its business. Some very good trade literature by the company may be had upon application. In writing kindly mention THE AMERICAN ARTISAN.

NOTES AND QUERIES.

ACETYLENE GAS MACHINES.

From G. W. Ankerman, Calhoun, Ky.

Where can I get information regarding acetylene gas machines?

Ans.—Ideal Epworth Acetylene Company, Johnstown, Pa.

GAS BURNERS FOR GAS RANGES.

From The Franklin Stove Company, Columbus, O.

Will you kindly give us the address of a foundry that makes gas burners for gas ranges?

Ans.—The Taylor & Boggis Foundry Company, Cleveland, O.

ADDRESS OF MAGEE FURNACE COMPANY.

From Merton J. Holsinger, Rochester, Ind.

Will you please give me the address of the Magee Furnace Company, manufacturers of the Boston heater?

Ans.—Boston, Mass.

MOTOR BICYCLES.

From Johnson & Tengblad, Hallock, Minn.

Where can I buy motor bicycles?

Ans.—Hendee Mfg. Co., 1251 Michigan avenue, Chicago; Armac Motor Co., 472-478 Carroll avenue, Chicago; The Whipple Motor Cycle Man, 260 W. Jackson boulevard, Chicago.

WOOD FURNACES.

From Accola Brothers, Prairie Du Sac, Wis.

Can you give us the names of firms who make wood furnaces with long fire boxes?

Ans.—The Boynton Furnace Company, Lake street, Chicago; The Robinson Furnace Company, Lake street, Chicago; Walter S. Rait & Company, Lake street, Chicago; R. J. Schwab & Sons Company, Milwaukee, Wis.; Monroe Furnace & Foundry Company, Monroe, Mich.; L. J. Mueller Furnace Co., 191 Reed street, Milwaukee, Wis.

WISS SNIPS.

From W. J. Henry, Oklahoma City, Okla.

Please give me the name of the manufacturer of Wiss Snips.

Ans.—J. Wiss & Sons, Newark, N. J.

ITEMS.

The Cincinnati Galvanizing Co., has in preparation plans for a one-story addition to its present plant. The addition will be 40 x 78 feet in size.

The Iron City Stamping Company of McKeesport, Pa., has been incorporated. The capital stock is placed at $50,000. P. W. Campbell, C. I. Moore and J. H. Lytle are the incorporators.

The Terre Haute Furnace & Sheet Metal Co. of Terre Haute, Ind., has been incorporated with a capital of $10,000, for the purpose of buying and selling furnaces, heating plants, etc. The incorporators are Samuel C. Brown, T. F. O'Hearn, Thos. G. Love and Mary C. Brown.

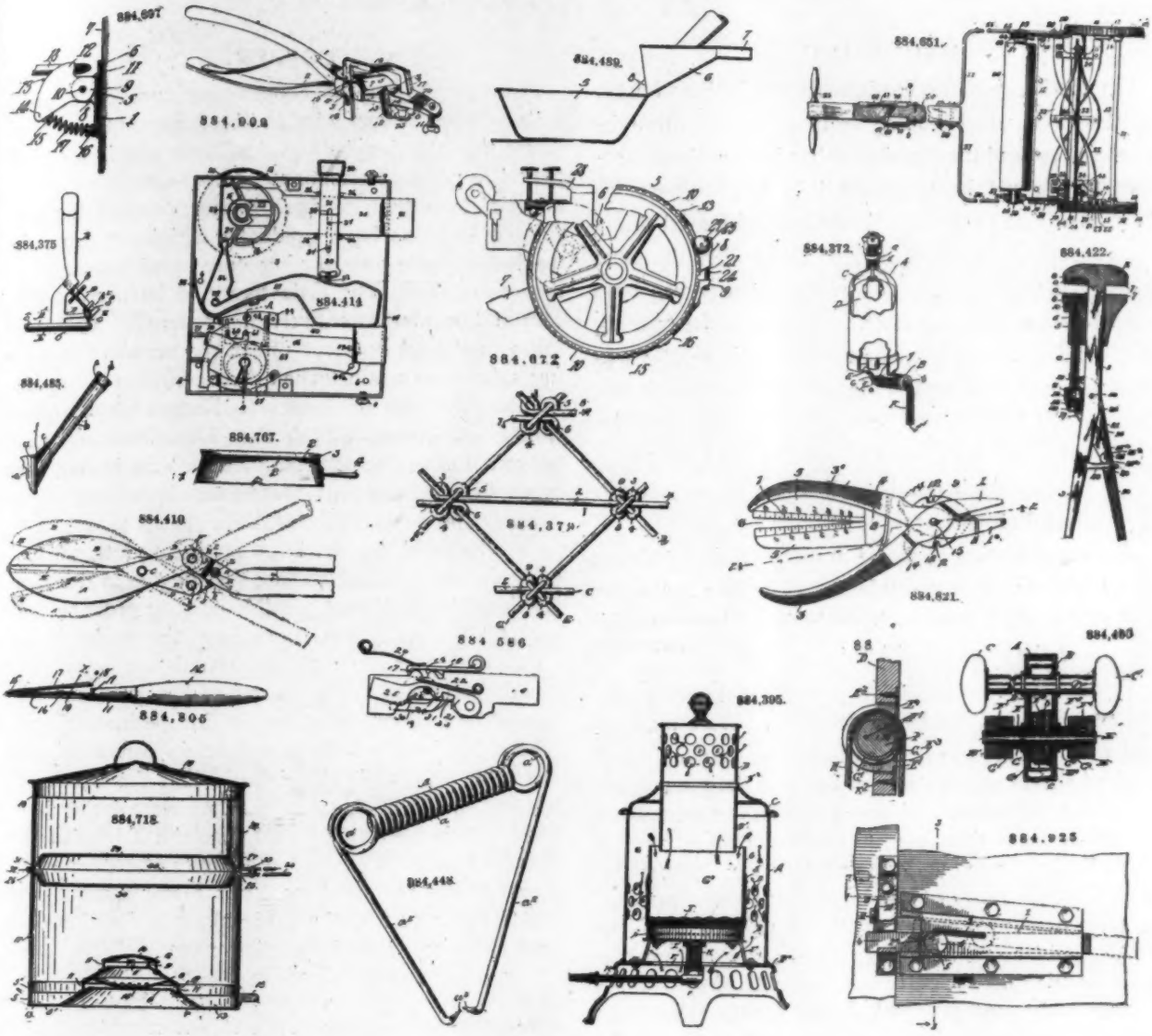
The National Cornice & Ceiling Company has been incorporated at Cleveland, O., to manufacture cornices, pressed steel ceilings and other sheet metal wares. The incorporators are Alexander Lakx, Harry Etinger, Philip Etinger, C. C. Highland and R. D. Morgan. The company is capitalized at $10,000.

The old sheet mill at Ashland is said to have been put under an option by E. B. Job of Niles, O., and it is said that the plant is being cleaned up with a view to putting it into operation about the first of May. This it will be remembered is a six-mill plant, and when put into operation it will be under the control of a company to be known as the Job Iron & Steel Company which will capitalize at $200,000.

Follansbee-Banfield-Process roofing tin, manufactured by the Follansbee Brothers Co., will be used in reroofing the large building occupied by the Seybolds Dry Goods Co., at Logansport, Ind., the contract for the job having been given the Flanegin Hardware Co., by J. D. Ferguson. This is only one instance of the wide and increasing demand for the product of the Follansbee company, whose main office and warehouse are at Pittsburg, and mills at Follansbee, W. Va.

The Reeves Manufacturing Co., Canal Dover, O., manufacturers of all styles of sheet metal roofing and siding, Dover nested stove pipe, and one-piece stove pipe elbows, is issuing two striking circulars, illustrating and describing a number of its specialties. Prominence is given to the corrugated iron and V crimp roofing, to Apollo galvanized sheets, and to the perfected eaves trough, which is made in ten-foot lengths, with no cross seams, each joint of the eaves trough being guaranteed perfect, and made of galvanized steel, galvanized charcoal iron, IX terne and copper. Other articles of Reeves manufacture are also given mention and illustration in the circulars at hand.

NEW PATENTS.



884,372—Venting-Valve for Radiators. Lewis W. Eggleston, Appleton, Wis. Filed July 22, 1907. Serial No. 384,930.

884,375—Safety-Razor. John A. Everett, Natick, Mass. Filed July 12, 1907. Serial No. 383,428.

884,379—Wire Fencing. William H. Griffith, Omaha, Neb. Filed August 9, 1906. Serial No. 329,818.

884,395—Heater. Leonidas L. Law, Dayton, Ohio, assignor of one-half to G. G. G. Peckham, Dayton, Ohio. Filed October 17, 1906. Serial No. 339,286.

884,410—Hand-Shears. Alexander Nicholson and Ingwald T. Rude, Chicago, Ill. Filed July 20, 1907. Serial No. 384,772.

884,414—Lock. Joseph Phillips, Midland, Ontario, Canada. Filed July 1, 1907. Serial No. 381,726.

884,422—Wrench. William Schmitt, Baltimore, Md. Filed August 6, 1907. Serial No. 387,337.

884,448—Ice-Tongs. John L. Williams, Philadelphia, Pa. Filed December 14, 1907. Serial No. 406,473.

884,460—Combined Lock and Latch. William C. Brown, Terre Haute, Ind. Filed December 6, 1907. Serial No. 405,394.

884,472—Sash-Balance. Michael J. Daly and Thomas S. Leake, Chicago, Ill. Filed August 12, 1905. Serial No. 274,010.

884,485—Handle for Dippers. Malcolm E. Gray and William Gray, Rochester, N. Y. Filed November 13, 1905. Serial No. 286,986. Renewed September 19, 1907. Serial No. 393,691.

884,489—Combined Funnel and Dipper. Henry H. Hanson, Tyler, Tex. Filed September 3, 1907. Serial No. 391,231.

884,586—Lock. Adolf Huber, Hartford, Conn., assignor of one-third to Anthony M. Jacobs, Hartford, Conn. Filed August 30, 1907. Serial No. 390,755.

884,651—Lawn-Mower. James H. Frey, Vincennes, Ind., assignor of one-half to Frank C. Hardacre, Vincennes, Ind. Filed January 10, 1907. Serial No. 351,659.

884,672—Apparatus for Sharpening Lawn-Mowers. Henderson E. W. Loomis, Dumont, Iowa. Filed October 24, 1907. Serial No. 398,985.

884,697—Automatic Door-Check. James Wirgman, Cumberland, Md., assignor of one-half to W. O. Hoffman and George E. Deneen, Cumberland, Md. Filed May 27, 1907. Serial No. 375,981.

884,718—Cooking Utensil. Jeremiah H. Cowhig, Bremerton, Wash. Filed August 7, 1907. Serial No. 387,462.

884,767—Cooking Utensil. Fannie B. Senseney, Chambersburg, Pa. Filed January 30, 1908. Serial No. 413,339.

884,805—Razor-Blade Holder. Patrick J. Enright, Lowell, Mass. Filed July 31, 1907. Serial No. 386,377.

884,821—Wire-Working Tool. John Huhta and Frank Laurell, De Kalb, Ill. Filed April 24, 1907. Serial No. 370,071.

884,909—Saw-Setting Tool. Clayton A. Drew, Eureka, Cal. Filed March 6, 1907. Serial No. 360,912.

884,925—Latch. Ignatius W. Herman, Cotesfield, Neb. Filed June 19, 1907. Serial No. 379,736.

Trade Report.

HARDWARE

The condition of the hardware trade both as relates to the retailing and jobbing sections thereof throughout the West and the Northwest has been a disappointment to the merchants engaged in this business for the reason that ever since the October financial flurry it has sustained its strength right along when the same industry in Eastern sections of the country has been reported in a drooping state. Ever since the opening of the current year even in the time when little was expected in the way of trade activity each week and each month has shown aggregate advances and increases over the sales for the corresponding periods of 1907, a year which has been held up as an example of wonderful prosperity.

The reaffirmation of prices in many of the hardware lines has done much to establish and sustain confidence and as we find it now each week shows important increases in the sales of all hardware lines.

Prices remain steady and firm throughout almost the entire line of hardware products. Wire products and wire fencing are firm and in great demand. Galvanized sheets are in stronger demand than heretofore and it is reported that jobbers are filling up their stocks to full or more than normal requirements.

Padlocks have undergone a price equalization which affects many of the higher and lower prices.

Wire nails are quoted at $2.23; painted barb wire $2.38; galvanized barb wire $2.68; smooth annealed wire $2.08; smooth galvanized wire $2.38; galvanized staples $2.63, and polished staples $2.23. These quotations relate to car lots to jobbers. Quotations to retailers in car lots are five cents higher and on less than car lots fifteen cents higher.

Iron cut nails are quoted in car lots to jobbers, $2.23; to retailers, $2.28; steel cut to jobbers, in car lots, $2.03; in car lots to retailers, $2.08.

TIN PLATE.

Tin plate manufacturers report a heavy call for nearly all grades. Mills are reported running on rush orders due to the approach of the canning season. Prices are for 100-pound coke plates $3.70 at Pittsburgh mills with the independents quoting $3.65. Price f. o. b. Swansea for tin plate is 12s 7½d. Arrivals of tin plate at New York were 33,022 boxes and at Philadelphia 331 boxes. Stock of tin plates at Swansea on April 2 was 152,979 boxes as compared with 161,992 at the same time last year.

For prompt shipment, f o b mill:

Coke, tins, 14x20, I C	3.85@3.90
Coke, tins, 14x20, 100 lbs	3.70@3.75
Coke, tins, 14x20, 95 lbs	3.65@3.70
Coke, tins, 14x20, 90 lbs	3.60@3.65
Charcoal, terne, 20x28, I. C	7.30@7.35
Charcoal, terne, 20x28, 200 lbs	7.00@7.05

Usual differences for odd sizes and weights.

COPPER.

Domestic buying of copper continues on a small scale. Reports from wire and brass manufacturers indicate that the first half of April was nearly a record period in point of slackness. New orders for finished material have been of small proportions and the consuming interests have gradually withdrawn from the market and are now buying only small quantities of the raw metal. The little flurry of buying noted in March has almost entirely disappeared. The large selling agencies however under the necessity of making sales have again turned their attention to exports. While shipments of copper to Europe showed some falling off during March they have materially improved during the current month there having been more than 20,000 tons of the metal sent out of the country since April 1.

It is believed that the large producing interests realizing the necessity of keeping the supplies in this country down to the lowest possible point in order to make way for the heavy stocks due from the producing districts the latter part of next month are forcing the metal for sale in every quarter of the globe and what cannot be sold will be stored in European warehouses. There has been a fair movement in consumption on the other side and it is thought that the warehouses are not so full of the metal as they were earlier in the year. It is also understood that the European consumers have secured a great quantity of copper around 13c. Prices on the New York Metal Exchange are 12¾c to 12⅞c for lake 12⅝c to 12¾c for electrolytic and 12⅜c to 12½c for casting copper.

Extreme fluctuations for the year:

	Highest.	Lowest.
Electrolytic copper, spot	13¾	12¼
Lake copper, spot	13⅞	12⅜
Casting copper, spot	13½	12⅛

SHEETS.

At a harmonious meeting of the independent sheet and tin plate manufacturers held during the week present prices were reaffirmed and trade conditions were reported quite satisfactory. The sheet trade is in a steady and fairly satisfactory condition, although in many of its lines there is not reported any great activity. Owing no doubt to the present awakening of building interests the galvanized product is at the present time more active than any other of the sheet commodities. The operating capacity of the American Sheet & Tin Plate Company is reported the same as it stood last week, namely 55 per cent.

The following prices are for 500-bundle lots and over, f. o. b. mill:

		Galvanized	
Gauge.	Net.	Net.	List.
No. 30	2.75	4.05	21
No. 29	2.65	3.80	19
No. 28	2.50	3.65	17
No. 27	2.40	3.35	16
Nos. 25 to 26	2.35	3.15	15
Nos. 22 to 24	2.30	2.95	14

SHEET ZINC.

Business in sheet zinc continues of small proportions. Consumers are taking nothing beyond actual requirements for immediate use and trading is mainly routine in character. Prices are steady on the basis of $7.00 per 100 pounds f. o. b. smelter.

SPELTER.

The spelter market is easy with a small demand from consumers who are more inclined to meet sellers' views. The St. Louis market is firm at 4.55c. The London market is easy at £21 5s.

Extreme fluctuations for this year:

	Highest.	Lowest.
Spot, London	£22 0 0	£19 17 6
Spot, New York	4.80c	4.32½c

ALUMINUM.

Trading in aluminum is more or less of a routine character with business of small proportions. Prices are easy. No. 1 ingots for remelting are offered at 33c to 34c per pound in ton lots and No. 2 ingots at 31c to 32c in carlots for 90 per cent pure.

IRON BARS.

The bar iron market presents a quiet appearance. Most of the local dealers are holding firmly at 1.56c, and at a recent meeting agreed to maintain this price, despite the advance in the Pittsburgh price from 1.40c to 1.50c.

PIG IRON.

Nothing startling has occurred in the Chicago pig iron market to disturb the long prevailing quiet that has been experienced in it. There are reported some few transactions that are considered of importance in which are included some extensive rail purchases, notably one by the Chicago Railways Company for street car service, but these lead quite in advance of the pig iron product of the present and do not affect the general market to any great extent, but reach into special lines that come up from certain chosen ores. The largest pig iron purchase of the week in Chicago was one of 1,650 tons, taken by the L. Wolff Mfg. Co. of Chicago and one of 1,500 tons by the American Steel Foundries Co. through its Chicago office. Practically all of this iron is for shipment within the next three months. The Wolff purchase is in mixed northern and southern irons. The purchase of the American Steel Foundries Company is said to be in special low phosphorus Bessemer. There has been reported during the week nothing doing in southern iron below $12 Birmingham. We quote the market as follows:

CHICAGO MARKET.

Lake Superior charcoal	20.50@21.00
Northern foundry No. 1	17.50@18.00
Northern foundry No. 2	17.00@17.50
Northern foundry No. 3	16.50@17.00
Southern foundry, No. 1	16.35@16.85
Southern foundry, No. 2	16.35
Southern foundry, No. 3	15.85@16.35
Southern foundry No. 4	15.35@15.85
Southern No. 1 soft	16.35@16.85
Southern No. 2 soft	16.35
Southern gray forge	15.35@15.85
Southern mottled	15.10@15.60

PITTSBURG MARKET.

No. 2 foundry	16.15@16.65
Gray forge	15.40@15.65
Bessemer	17.50@17.90
Basic	16.30@16.40
Malleable	16.90@17.15
Southern No. 2	16.90@17.40
Southern forge	15.15@15.40

BIRMINGHAM HARKET.

No. 1 foundry	13.00@14.00
No. 1 soft	13.40@14.00
No. 2 foundry	12.00@12.50
No. 2 soft	12.00@12.50
Gray forge	10.50@11.00

Rogers, Brown & Co., Cincinnati, will say in their weekly report: The run of small business continues, but recent inquiry for large tonnage has not developed into sales, as was expected. At present prices Southern furnaces are able to compete and get the business, to the practical exclusion of Northern brands, and in consequence the business in Northern iron has been at a minimum.

Production is not increasing and the output is being figured down closer to consumption as the days go by. There does not appear to be any decrease in consumption, but recent increase, if any, has been so slight as to be almost negligible.

There is quite a fair line of inquiry, but most of it develops, on investigation, to be for purposes of information, and any tonnage placed shows quite a shrinkage from the original amount asked for.

The policy of blowing out stacks instead of continuing the manufacture of iron at a loss has continued.

The leading movement of pig iron is on orders which called for completion by the first of the year, but which were held up and are rapidly being completed by shipments which are being rushed in transit and used immediately on receipt. Buyer's yards seem to be about as clean as is possible for them and still conduct what business they are doing. If the handling of traffic by the railroads was not as good as it is, their stocks would be much more in evidence.

There has been a revival in inquiry from abroad for pig iron for export and some sales have been made to go out of the country. Prices ruling abroad, however, are not as attractive as usual under similar circumstances.

Matthew Addy & Co., Cincinnati, will say in their weekly report: There is a feeling throughout the trade of something impending—something about to happen. Nearly all the consumers of iron are talking as though they expected something to drop. For a fortnight now the trade has been full of rumors to the effect that presently there would be great doings in the market. It is difficult to tell exactly what is anticipated, but the result of this state of affairs is that what orders are placed call for practically quick shipment. Of course there are some exceptions to this rule, but there is no doubt that three-fourths of the iron being sold to-day is for immediate delivery. Consumers are not taking any chances on the market. In one way this is decidedly in favor of the furnaces as they will start in when the real improvement comes with free order books and the foundries will start with empty yards.

It is a fact that very slowly general conditions in the iron trade are improving. It is hard to notice a betterment from week to week but when a period of thirty days is compared with the same time preceding it then it can be seen that more has been done.

Those expecting a quick recovery now realize that they were too hopeful. But the fact remains that no matter how dull things are they are not as dull as they were. There are many manufacturers who are still grumbling and who profess to see no encouraging signs, yet when you pin them down they will all admit that business with them is brisker.

Current Hardware and Metal Prices.

THE AMERICAN ARTISAN AND HARDWARE RECORD is the only publication containing western hardware and metal prices corrected weekly.

METALS.

FIRST QUALITY BRIGHT PLATES.

		Per Box.
IC	14x20	$6 40
IX	14x20	7 45
IXX	14x20	8 60
IXXX	14x20	9 85
IXXXX	14x20	11 00
IC	20x28	13 70
IX	20x28	15 70
IXX	20x28	18 15
IXXX	20x28	20 55
IXXXX	20x28	22 95

COKE PLATES.

Cokes, 180 lbs	IC	20x28	$ 8 50
Cokes, 200 lbs	IC	20x28	9 00
Cokes, 216 lbs	IC	20x28	9 50
Cokes, 270 lbs	IX	20x28	11 25

PIG IRON.

North'n Fdy., No. 1	$17 50@$18 00
North'n Fdy., No. 2	17 00@ 17 50
North'n Fdy., No. 3	16 50@ 17 00
Southern Fdy., No. 1	16 35@ 16 85
Southern Fdy., No. 2	16 35@
Southern Fdy., No. 3	15 85@ 16 35
Southern Fdy., No. 4	15 35@ 15 85
Southern No. 1 Soft	16 35@ 16 85
Southern No. 2 Soft	16 35@
Southern Gray Forge	15 35@ 15 85
Southern Mottled	15 10@ 15 60
Lake Sup. Charcoal	20 00@ 21 00
Southern Silveries, 4% Silicon	17 85@ 18 35
Southern Silveries, 5% Silicon	18 35@ 18 85
Southern Silveries, 6% Silicon	19 35@ 19 85
Jackson Co. Silveries, 6 per cent	18 90@ 19 40
Jackson Co. Silveries, 8 per cent	20 90@ 21 40
Jackson Co Silveries, 10 per cent	22 90@ 23 40
Malleable Bessemer	17 50@ 18 00
Standard Bessemer	18 40@ 18 90
Alabama Basic	17 35@ 17 85

BLACK STEEL SHEETS.

Nos. 11-12	per 100 lbs. $2 60
Nos. 13-14	per 100 lbs. 2 65
Nos. 15-16	per 100 lbs. 2 70
Nos. 17-21	per 100 lbs. 2 75
Nos. 22-24	per 100 lbs. 2 80
Nos. 25-26	per 100 lbs. 2 85
No 27	per 100 lbs 2 90
No 28	per 100 lbs. 3 00

GALVANIZED

No. 10	per 100 lbs. $2 25
Nos. 12-14	per 100 lbs. 2 45
No. 16	per 100 lbs. 2 65
Nos. 17-21	per 100 lbs. 2 85
Nos. 22-24	per 100 lbs. 3 05
Nos. 25-26	per 100 lbs. 3 25
No. 27	per 100 lbs. 3 45
No. 28	per 100 lbs. 3 65

POLISHED SHEET STEEL.

No. 24	per 100 lbs $4 90
No. 26	per 100 lbs. 5 00
No. 27	per 100 lbs. 5 10
No. 28	per 100 lbs. 5 20

SMOOTH STEEL.

Wood's Smooth, No. 20	$3 05
" " No. 22-24	3 10
" " No. 25-26	3 15
" " No. 27	3 20
" " No. 28	3 30

PATENT PLANISHED SHEET IRON.

Patent Planished Sheet Iron, "A" $10.20, "B" $9 20

PATENT PLANISHED SHEET STEEL.

Dickey Planished Sheet Steel 8½c

SOLDER.

XXX Guaranteed ½ & ½	per lb. 18 c
Commercial ½ & ½	per lb. 17½c
No. 1 Plumbers	15½c

SHEET ZINC.

500 lb. Casks	case, per cwt. $8 00
300 lb. Casks	per cwt. 8 00
Sheets	per cwt. 8 00

COPPER.

Copper sheet, 100 lbs. over, base ... 20c

TIN PIGS AND BARS.

Banca, pigs, per lb	29 c
Straights, pigs, per lb	29 c
Straights in bars, per lb	33 c

LEAD.

American Pig	4 c
Bar	4 c
National (White) brands (in less than 100 lb lots), per lb	8½c

Sheet.

Full coils	per 100 lbs. $9 00
Cut coils	per 100 lbs. 9 50

HARDWARE.

ADZES.

Carpenters'.
Plumbs 40%

Coopers'.
Barton's 20%
White's 15%

Railroad
Plumbs 40%

Ship.
Plumbs 40%
White's 12½%

AMMUNITION.

Caps, Percussion—per 1,000.

F. L Waterproof, 1-10s	40c
G D	35c
Musket	60c

Shells, Loaded—
Loaded with Black Powder 40%
Loaded with Smokeless Powder, medium grade ..... 40 & 5%
Loaded with Smokeless Powder, high grade ..... 40 & 10 & 10%

Union Metallic Cartridge Co.:
New Club, Black Powders 40%
Nitro Club, Smokeless Powders, ... 40 & 5%
Arrow, Smokeless Powders ..... 40 & 10 & 10%

Winchester:
Smokeless Repeater Grade .. 40 & 5%
Smokeless Leader Grade. 40&10&10%
Black Powder 40%

Gun Wads—per 1,000.
Winchester Gun Wads 15%

Powder.

	Each.
DuPont's Sporting, kegs	$ 50
" " ½ kegs	2 50
" " ¼ kegs	1 40
Dupont's Sm'k'less. 50-lb. drum	22 45
" " 25-lb. kegs	11 30
" " 12½-lb. kegs.	5 80
" " 6½-lb. kegs.	2 97
" 1-lb. cans	15

Shot.

Drop shot, sizes smaller than B, 25-lb. bags, per bag	1 95
Drop shot, B and larger sizes, 25-lb. bags, per bag	2 20
Buck Shot, 25-lb. bags, per bag	2 20
Chilled Shot, 25-lb. bags, "	2 20

ANCHORS

Expansion Screw Anchors 10%

ANVILS

Trenton, 70 to 80 lbs	9½c per lb
Trenton, 81 to 150 lbs	9½c per lb

ASBESTOS.

Board and Paper 25%

AUGURS.

Boring Machine 70%
Irwin's ..... 40&10%
Carpenter's Nut 70%
Hollow.
Bonney's—list $30.00 ..... 75&5%
Stearns, No. 3 ..... 36 00
Post Hole.
Digwell, 8-inch ..... per doz. 12 50
Iwan's Post Hole and Well .. 40%
Vaughan's, 4 to 9-in., per doz. 6 25
Rafting.
Snell's ..... 50&5%
Ship.
Ford's, with or wi'out screw. 40-12½%
Snell's " " " 40-5%

AWLS.

Brad.

No. 3 Handled	per doz. $0 40
No. 1050 Handled	" 80
Shouldered, assorted, 1 to 4,	per gro. $1 20
Patent asst'd, 1 to 4	" 85

Harness.

Common	" 95
Patent	" 90

Peg.

Shouldered	" 1 20
Patent	" 60

Scratch.

No 1 handled	" 4 80
No. 15, socket handled	per dos. 1 25
No. 7 Stanley	1 80

Sewing.

Common	per gro. 90
Patent	" 90

AXES.

Boy's Handled.

Lippincott, 3 lb	per doz. $6 00
Falls City	" 6 00

Broad.

Plumbs, West, Pat	33⅓%
" Can. Pat	40%
" Firemen's (handled)	per doz $1, 75
Plumbs, Miners' (handled)	" 6 75

Single Bitted (handled)

Gladiator . 3 to 4 lbs , per doz	$11 00
Flint Edge " " "	9 25
Standard .. " " "	9 25
Elec Chopper, Forest Clipper	10 50
Perfect Premier " "	10 00
Crown " "	7 00

Single Bitted (without handles)

Gladiator ... 3 to 4 lbs. per doz.	$8 50
Flint Edge. " "	7 00
Standard... " "	7 00
Electric Chopper" "	8 25
Perfect..... " "	7 75
Crown..... " "	6 25

Double Bitted (without handles).

Gladiator ... 3 to 4 lbs. per doz.	11 50
Flint Edge. " "	9 75
Perfect..... " "	11 00

The above prices on axes of 3 to 4 lbs. are the base prices.
3½ to 4½ lbs. advance 25c
4 to 4½ lbs. advance 50c.
4½ to 5½ lbs. advance 75c.

BAGS, PAPER NAIL.

Pounds	10	16	20	25
Per 1,000	$2.50	3.75	4.50	5.00

BALANCES, SPRING.

Frary's 40%
Pelouze 20%

BARS, CROW.

Pinch or Wedge Point .. per cwt. $3 75

BASKETS.

Clothes.

Small Willow	per doz. $7 00
Medium "	" 8 75
Large "	" 10 50

Galvanized Iron.

	½ bu.	1 bu.	1½ bu.
Per doz	$4 75	6 50	8 00

BEATERS.

Carpet. per doz.

No. 10 Coppered Spring Wire.	$0 90
No. 12 Spring Wire	1 10
No. 10 Preston	1 10

Egg. Per doz.

No. 50 Imp. Dover	$0 75
No. 102 " " tinned	85
No. 150 " " hotel	1 40
No. 10 Heavy hotel tinned	2 10
No. 13 " " "	3 30
No. 15 " " "	3 60
No. 18 " " "	4 50

BELLOWS.

Blacksmiths' 65%
Hand.
8-inch ..... per doz. $3 50
10-inch ..... " 10 50
Moulders'.
12-inch ..... " 12 50

BELLS.

Call.
3-inch Nickeled Rotary Bell, Bronzed base ..... per doz. $5 00
Cow.
High Grade 60%
Kentucky ..... 65&10%
Door. Per doz.
New Departure Automatic ... $6 00
Rotary.
3 -in. Old Copper Bell 4 00
3 -in. Old Copper Bell, fancy .. 6 00
3 -in. Nickeled Steel Bell 4 50
3½-in. Nickeled Steel Bell 5 00
Hand.
Hand Bells, polished ..... 50&5%
White Metal 40%
Nickel Plated 30%
Swiss ..... 40&33⅓%
Silver Chime 33⅓%
Miscellaneous.
Church and School, steel alloy .. 50%
Farm, lbs 40 50 75 100
Each $1.25 1.60 2.35 2.85

BEVELS, TEE

Stanley's, rosewood handle, new list 25%
Stanley's iron handle 25%

BINDING, OILCLOTH.

Zinc 80%
Brass ..... 70&10%
Brass plated ..... 75&5%

BITS.

Auger.
Extra Double Spur ..... 70&10%
Ford's Car and Machine .... 40&10%
Triumph ..... 50&5%
Ford's Ship ..... 40&10%
Irwin 50%
Russell Jenning's ..... 25&10%
Clark's Expansive 60%
Steer's " Small list, $22.00 .. 25%
" " Large " $26.00 .. 25%
Irwin Car 45%
Ford's Ship Auger pattern Car ..... 40&10%
Center ..... 40&10%
Countersink.

No. 18 Wheeler's ..... per doz.	$1 25
No. 20 " .—.. "	1 75
American Snail head .. "	75
" Rose " .. "	90
" Flat ..... "	75
Mayhew's Flat ..... "	1 25
" Snail ..... "	1 25

Dowell
New Jennings ..... 40&10%
Gimlet.

Standard Double Cut	60%
German Pattern ..... per doz.	$0 60
German ..... "	65
Gouge ..... "	80
Spoon ..... "	80
Countersink ..... "	1 00
Reamer.	
Jenning's Square ..... "	2 50
Standard Square ..... "	75
German Octagon ..... "	75
Screw Driver.	
No. 7 Common ..... "	50
No. 1 Triumph ..... "	1 25
No. 2 " ..... "	1 —
No. 340 Shepardson's. "	—
No. 1 Smith's ..... "	—

BLACKING, STOVE. (See Polish).

BLADES, SAW.

Butchers'.
Standard, ¾ & 1¼-in.....40%
Clock Spring.....40%
Star.....15%
Coil.....each, $1 50

Hack.
Disston's.....25&5%
Flexible.....33⅓&5%
Star.....20&5%

Wood.
Jackson's.....per doz. $2 25
Disston's—No. 6, 16, 26 & 045.. 4 25
Triumph..... 3 50
Forest Clipper..... 3 00

BLOCKS.

Snatch.
Wooden.....60&10%
Steel.....50%

Tackle.
Iron Strapped.....70%
Com. Steel.....60%

BOARDS. (New List)

Stove.....50&10%

Wash.
Globe, single.....per doz. $2 50
Globe, double..... " 3 35
Peace Maker..... " 3 00
Crystal Glass..... " 4 00
Brass King..... " 4 00
Nickel Plate..... " 4 15

BOBS, PLUMB.

Carpenters'.
No. 2, iron.....per doz. $0 65
No. 00, " ..... " 1 30
No. 0, " ..... " 1 80
No. 3, lead..... " 2 90
No. 4, " ..... " 3 40
No. 113, brass plated.. " 1 10
No. N30, nickel plat'd. " 1 30
No. N31, " " " 1 85

BOLTS.

Carriage, Machine, etc.
Carriage, ⅜x6 and sizes smaller and shorter.....70&10%
Carriage, sizes larger and longer than ⅜x6.....60&5%
Machine, ⅜x4 add sizes smaller and shorter.....70&10%
Machine, sizes larger and longer than ⅜x⅜x4.....60&5%
Elevator.....50-10&5%
Plow.....60&10%
Stove .....80&10%
Tire.....75%
Wagon Box Strap.....70%

Mortis, Door.
Gem, iron.....60%
Gem, bronze plated.....20%

Barrel.
Cast.....60%
Wrought.....
Wrought, bronzed.....50%

Flush.
Wrought.....50&10%

Spring.
Wrought.....
Wrought, heavy.....

Square.
Cast.....50&10%
Wrought.....

BORERS.

Angular.
Miller's Falls.....per doz. $13 00

Bung.
Doz.
Enterprise Mfg. Co.'s No 1... $14 00
" " " No 2. .. 18 50

BOXES

Mail, No..... 1 2 10
Per doz.....$3.50 5.00 17.50

Miter.
New Langdon.....15&5%
Stanley's.....30%
Seavey's.....each, $1 50

BRACES.

Barber's .....50&10&10@50&10&15%
Fray's Genuine Spofford's.....60%
" Nos. 66 to 146.....50%
" No. 0108..... $3 50
" No. 06..... 2 75
" No. 010..... 2 85

BRACKETS.

Hay-Rack.
Wenzelmann's No. 1, per doz. $9 00
" No. 2, " 9 60

Shelf.
Cast Iron, bronzed.....50-10&5%
Clover Wrought Steel.....70&10%
Clover Folding.....70%

BROILERS.

Wire.....70%
No. Cwson, Self-basting, 80doz .. $2 50

BUCKETS.

Pump, Rubber.
Wychoff.....per gro. $4 75
Cooper..... " 4 75
Champion..... " 7 50
Victor..... " 9 25
Star..... " 5 00
IXL..... " 6 75

Well.
Galv'd Qts..... 10 12 14
Per doz.....$2.90 $3.25 $3.40
Wooden, top ear, plain, per doz. 4 00
" " swivel, " 5 10

BUCKS, SAW.

Folding.....per doz. $2 10

BURRS, RIVETING.

Copper Burrs only.....30%
Tinners' Iron Burrs only.....65&5%

BUTTS.

Cast Iron.....70&5%
Wrought Brass (New List).....40%
Wrought Steel, Bright.
Wrought Steel, Japanned.
Nos. 731 and - .....70&10%

CALIPERS.

Double.....65&5%
Inside and Outside.....65&5%
Wing.....70%

CALKS.

Logger's Boot.
(Lufkin R. Co.'s), per M..... $3 75

Toe.
Shoenberger.....per lb 5 c
Bessemer..... " 4½c
American..... " 7 c
Swedes..... " 8½c

CANS.

Cheese Factory.
Ontario Pattern.
Gallons..... 20 30 40
Each..... $4.25 $5.00 $6.25

Milk.
Holstein.
Nos..... 300 301 302
Gals..... 5 8 10
Per doz.....$26.00 $27.00 $29.00
Chicago Pattern.
Nos..... 105 108 110
Per doz.....$19.00 $21.50 $23.00
Iowa Pattern.
Nos..... 408 410
Per doz..... $23.50 $24.50
New Elgin Pattern.
Nos 705 708 710
Per doz.....$25.00 $27.00 $28.00
Burn Pattern
Nos..... 700 701
Gals..... 8 10
Price..... $2.40 $2.65

CAN OPENERS.

See Openers.

CAPS, GUN.

See Ammunition.

CARPET STRETCHERS.

See Stretchers.

CARRIERS.

Hay.
Diamond, Regular.....each, $3 85
Diamond, Sling..... " 6 50
Myers' Imperial ..... " 3 85
Myers' Clover Leaf..... " 4 00

CARTRIDGES.

See Ammunition.

CASTERS.

Standard—Ball Bearing.....50&10%
Bed.....60&5%
Common Plate.
Brass Wheel.....60&10%
Iron and porcelain wheels, new list.....60&5%
Philadelphia Plate, new list.....70%
Martin's.....60%
Payson's.....75&10%

CATCHERS, GRASS.

Carroll's, No. C.....per doz. $4 25
Wildermuth's,.
Nos..... 1 2 3
Per doz.....$5.60 $5.75 $6.25
Nos..... 4 5 6
Per doz.....$6.75 $9.50 $10.00

CHAIN AND CHAINS.

Breast Chains.
Doubleslack.....doz. pairs, $5 75
With Covert Snaps. " 5 00
With Slide..... " 3 25
Without Slide..... " 2 85

Bright Ox Chains.
½-in. $7.25; ⅜-in. $5.45 per 100 lbs.

Cable Coil Chain.
Inch..... 5/16 ½ 7/16 ⅝
Per 100 lbs.$10.80 $8.00 $7.00 $6.20
Inch..... 7/16 ½ ⅝ ¾
Per 100 lbs.$6.00 $5.90 $5.75 $5.65
Inch..... ¾ 1 1¼
Per 100 lbs.....$5.55 $5.55 $5.65

Cable Log Chain.
Advance 25c per 100 lb. on Cable Coil.

Cow Tie Chains.
American, 2 toggle.....50&5%
" toggle and snap...50&5%
" open and closed ring.....50&5%

Halter Chains.
American, new list.....33⅓%
German.....60%
Niagara, new list 40%
Brown's, " 40%

Picture Chains.
Light Brass, 3 ft.....per doz. $0 65
Heavy Brass, 3 ft .... " 1 00

Pump Chain
Galvanized, per 100 lbs.....$5 50

Safety Chain.
Brass.....60%

Special Steel Loading Chain.
Inch..... ¼ 5/16 3/8
Per 100 lbs.....$16.00 $13.50 $12.50

Stretcher Chains.
5/16-in. $8.50; ⅜-in. $7.75 per 100 lbs.

Tie-Out Chains.
Brown's.....70&5%

Trace Chains.
Western Standard.
6½— 6-2.....per pair 30c
6½— 8-2..... " 34c
6½— 8-3..... " 33c
6½—10-2..... " 38c
7 — 8-2..... " 38c
7 —10-2..... " 42c
7 —10-1..... " 48c
7 —10-0..... " 60c
Add 2c per pair for Hooks.
Add 2c " for Twist Link.

Wagon Stay Chains.
Inch..... ½ 5/16 ⅜
Per 100 lbs.....$6.50 $6.00 $5.50

CHALK, CARPENTERS'.

Blue.....per gro. 75c
Red..... " 65c
White..... " 55c
Common White School Crayon..... " 8c

CHARCOAL.

In bags.....per bag 90c

CHECKS, DOOR.

Blount.....33⅓%
Sargent's.....33⅓%

CHIMNEY TOPS.

Iwan's Volcano.....50%

CHISELS.

Box.
Inches..... 10 12 14
Round per doz....$2.10 $2.25 $2.75
Flat " ... 2.85 3.60 4.20

Cold.
Good quality, ⅜ in. and larger.....per lb. .12c
Smaller size per doz.....

Socket, Framing and Firmer.
Clover.....75&10%

Tanged, Firmer.
With handles.....30&5%

Choppers, See *Cutters, Meat.*

CHUCKS, DRILL.

Goodell's, for Goodell's Screw Drivers.....per doz. $6 25
Yankee, for Yankee Screw Drivers..... 5 00

CHURNS.

Anti-Bent Wood,
Gal..... 5 7 10
Each.....$3.00 $4.60 $4.85
Belle, Barrel.....65&7½%
Common Dash, Gal. 4 5 6
Per doz..... $7.75 $8.50 $10.50
Union, Gal..... 5 7 10
Each.....$3.65 $3.90 $4.75

CLAMPS.

Adjustable.
Martin's.....30%

Carpenters'.
Steel Bar.....25%

Hose.
Sherman's, brass, ½-in., per doz.. 42c
Double, brass, ½-in., " 90c

Saw Filers.
Disston's list, $30.00.....30%
Stearns', No. 0, $3.50; No. 1, $11.50; No. 3, $5.00 doz.
Wentworth's, No. 1, $6.00; No. 3 $7.50.

CLAWS, TACK.

Cast, wood hdle..... per doz.45@60c
Forged steel, wood hdle " $0.80
Solid steel..... " 1 00
Giant..... " 50

CLEANERS.

Drain.
Iwan's Adjustable.....55%
Iwan's Stationary.....40&5%

Pot.
Wire.....per doz. $0 55

Side-Walk.
Steel.....per doz. $3 25
XLCR .....65&5%

CLEAVERS

Family.
Griffin, Inch..... 6 7 8
Per doz.....$5.50 $5.75 $6.25
Royal.....per doz. 2 25

Butchers.
Plumbs.....25%

CLEVISES

Malleable .....5½c lb.

CLIPPERS.

Bolt.....$1.90@4.75

CLIPS.

Axle.....65&5%

Damper.
Standard.....per doz. 65c
Troy..... " 38c

Hame..... " 17

CLOTH.

Emery.
Star.....50%
B. & A.....50%

Hardware Wire—full rolls (100 ft.)
2 to 3 incl., Galv.—in full roll... 2 75
4 and 5..... " .. 3 00
6..... " .. 3 25
7 and 8..... " .. 3 75

Screen Wire.
12 mesh, painted, per 100 sq. ft.. 1 35

COCKS AND FAUCETS.

Compression Plain Bibbs...60, 10&5%
Lever Bibb Cocks.....60, 10&5%
Compression Hose Bibbs . .50—10&5%
Telegraph Faucets (new list)..50—5%
Racking Cocks (new list)...60, 10&5%
Compression Lock C'ks(new list).70%
Andrew's Brass Faucets.....70%
Angle Plug Faucets, per doz....$0 85
Milk Can Faucets, per doz..$2.60-4.20
Petroleum Faucets .....75&5%

COLLARS, STOVE PIPE.

Inches..... 5 6 7
Plain Tin..per gro.$1.90 $2.40 $3.50
Japanned Tin " 3.00 3.00 4.25
Lacquered Brass" 3.00 5.50 4.25

COMBS, CURRY.

Nos... 000 11 15 30 89 108
Per Doz..$.37 .60 1.90 .90 1.15 .80
Nos... 299 320 390 532 620 1400
Per Doz.$1.05 .85 1.35 1.20 .75 1.40

COMPASSES.

Carpenters'.....60—10—10%
Pencil—Faber's.....per doz. $1.00

COPPER—See Metals.

COPPERS.

Soldering.
1 lb.....per lb 30c
1½ lb.....31c 2 lb... " 29c
3 lb and larger..... " 26c

CORD.

Picture
White Wire (new list) .....85&10%

Sash.
Monarch Braided Flax ...per lb
Silver Lake. white. 7-32 in. "
Silver Lake, white, 8-32 in. "
Keystone.....8-32 in. " 29c

CORKSCREWS.

Humason & Beckley.....33⅓%
Walker's.....33⅓%
Williamson's Regular.....40&10%
Williamson's Forged Worm.....50%

COTTERS, SPRING.

All sizes—new list.....90&30%

COUPLINGS, HOSE.

Brass.....per doz. $
Brass Plated..... " 85

COVERS, WAGON—See Tents.

CRADLES, GRAIN.

Morgan's Grapevine....per doz.$22 75

CRAYONS—See Chalk.

CROW BARS.

Inch or Wedge Point.....per lb 3½c

CUTTERS.

Glass.
Red Devil.....45%
Smith & Hemenway Co.....50%
Woodward.....40%
Meat.
Enterprise, Nos. 5, 10, 12, 22, 32 and 42.....25%
No. 202. list, $1.50 ea.....40&7½%
Pipe.
Stanwoods. No.... 1 2 3
Each.....$0.85 $1.50 $4.00
Slaw and Crout.
3-knife Crout.....per doz. $9 75
1-knife Slaw..... " 1 65
2-knife Slaw..... " 2 25
Washer..... " 7 75

DAMPERS, STOVE PIPE.

Jewel.....50&10%
American.....50%

DIES AND STOCKS.

Discount.....40%
King's, Little Giant.....33⅓%

DIGGERS.

Post Hole.
Acme.....per doz. $9 25
Atlas..... " 9 00
Eureka..... " 7 50
Hercules..... " 10 25
Iwan's Split Handle.. " 7 50
Iwan's Perfection.... " 9 00
Iwan's Hercules pattern " 10 00
Ryan's..... " 17 00
See also Augers—Post Hole.
Dividers, Wing.....65&10%

DOOR CHECKS—See Door.

DOORS, SCREEN.

⅞ in. 4-panel, painted...per doz. $7 93
1⅛ in. 4-panel, painted... " 9 50
1⅛ in. 3-panel, natural pine, fancy..... " 12 40

DOOR HANGERS—See Hangers.

DRILLS.

Bit Stock.....60&10%
Blacksmith's Twist.....60%
Breast.
Fray's No. 9.....each, $1 75
Millers Falls No. 12..... " 2 10
Hand.
Goodell's Automatic.
Nos..... 01 03 3 20
Per doz.. $7.75 $12 50 $12.50 $11.00
Goodell's Single Gear. per doz. 15 75
Millers' Falls " " " 12 75
" " Double " " 15 25
Reciprocating.
Goodell's.....per doz. 16 50
Bit Stock.
Standard List.. 60&5%@60%@10

DRIVERS, SCREW.

Standard.....65&10%
Lock Ferrule.....60%
Champion.....40&10%
Champion Pattern.....70%
Clark's Interchangeable.....30%
Edison.....60%
Reed's Lightning.....45&5%
Goodell's Spiral.....50, 10, 5&2½%
Yankee Ratchet.....50%
" " Spiral.....50&10%
Smith & Hemenway Co.....40&5%

EAVES TROUGH, GALVANIZED.

Terms, 2% for cash. Factory shipments generally delivered.

See also conductor pipe and elbows.

EGG BEATERS—See Beaters.

ELBOWS.

Adjustable Stove.
Inches..... 5 6 7
Smooth, per doz...$0.75 $0.85 $1.20
Plan'd, " 1.80 2.00 2.65
Corrugated Conductor.
Discount.....75&10%
Corrugated Stove.
Inches..... 5 6 7
Smooth, per doz..$0.85 $1.00 $1.50
Pol'd, " 1.40 1.65 2.25
Plan'd, " 2.15 2.65 3.40
Four-Piece Stove.
Inches..... 5 6 7
Smooth, per doz..$0.60 $0.65 $0.95
Planished, " 1.40 1 70 2.30

EMERY CLOTH—See Cloth.

EMERY TURKISH.

Size.....5-lb. pkgs. ½ kegs. kegs.
No 60 to 150, per lb.. 6c 4c 4c
Flour..... " ... 5c 3c 3c

ENAMEL, IRON.

Nubian, ½-pt. cans.....per doz. 1 65
Peerless..... 1 25

EXTRACTORS, PIG.

See Forceps, Pig.

EYES.

Bright Wire Screw—See Goods, B. W.
Drifting Pick.....60, 10&5%
Hooks and—
Brass.....50&10%
Iron.....70%

FASTENERS, STORM SASH.

Schroeder's.....per doz. $0.85
Sensible..... " 1 15

FAUCETS—See Cocks.

FILES AND RASPS.

Delta.....70%
Kearney & Foot.....75&10%

FLUE STOPPERS—See Stoppers.

FORCEPS, PIG.

Superior.....per doz. $4 75
Whisson's Imp..... " 5 25

FORKS.

These goods are sold net this year.
Barley.
Steel New List.....65&10%
Wood, 4-tines, per doz.....$5 00
Coal, Coke, Cottonseed.....30%
Hay.
2-tine.....60%
3 " .....60&5%
4 " .....60&10%
Digging.....65&5%
Scoop.....30%
Header.
3-tine.....60&5%
4 " .....60&5%
Manure.
4-tine.....60%
Ore.....40%
Spading.

FRAMES.

Hack Saw.
Union.....per doz. $5 75
Jenning's adj..... " 7 50
Cast..... " 2 50

FREEZERS, ICE CREAM.

Arctic.
Qts..... 1 2 3 4 6
Each...$1.10 1.30 1.50 1.80 2.30
Qts..... 8 10 12 15
Each.....$2.95 3.80 4.50 5.20
White Mountain.
20 qt., New Platform....each, $19 10
25 qt., " " " 22 60
25 qt., Sampson Power, " 43 50
40 qt., " " " 58 25
Ideal..... 3 25

GAUGES.

Butt and Rabbet.
Cream Pail.
Fairmont.....per doz. $3 75
Marking, Mortise, etc.....
.....50&10%
Saw.
Wire.
Disston's.....25%

GIMLETS.

Discount.....35@40%

GLASS, WINDOW.

Single.....90&20%
Double.....90&25%

GLASSES, LEVEL.

GLUE.

Bulk.
B Amber.....per lb. 12 c
A White..... " 15 c
H. S. Amber..... " 16½c
Liquid.
Army & Navy.....40%
Le Page's—
List "A".....37½%
List "B".....33⅓%
List "C".....25%

GOODS.

Bright Wire.....90%

GREASE, AXLE.

Wood Boxes.
Diamond.....per gro. $5 50
Frazer's..... 9 50
Hub Lightning..... 5 25
Paragon..... 6 75
Wood Pails.
Frazer's, 15 lb. 80c; 25 lb. $1.30 each.
Hub Lightning, 15 lb. 55c; 25 lb. 70c each.
Tin Cans.
Chamellene Graphite.
1 lb. per gross.....$0 50
3 lb. per gross.....25 00
5 lb. per gross.....37 00

GRIDDLES.

Soapstone.....33⅓%

GRINDSTONES.

Family.
Inches..... 7 8 9
Per doz.....$8.25 9.00 10.50
Loose.
Per ton.....$20 00@$21 00
Mounted.
Ball Bearing..... 1 2 3
Each.....$3.15 3.00 2.85
Common Bearing 1 2 3
Each.....$3.00 2.80 2.65

GUN WADS
(See Ammunition.)

HAFTS, AWL.

Brad.
Common.....per doz. $0 10
Peg.
Common..... " 22
Patent, plain top..... " 47
Patent, leather top... " 52
Sewing.
Common..... " 22
Patent..... " 52

HALTERS.

Jute Rope.....per doz. $1 10
Sisal Rope..... " 1 85
Web..... " 2 00
Leather, rope tie..... " 8 50
Leather, leather tie..... " 11 50

HAMMERS, HANDLED.

Blacksmiths' Hand.
Plumbs.....60&5%
Engineers'.
Plumbs.....60&5%
Farriers'.
Plumbs.....40&10%
Machinists'.
Plumbs.....60&5%
Nail.
Plumbs.....40&7½%
Quaker City.....per doz. $3 50
Cast..... " 1 15
Maydole's.....30&5%
Riveting.
Plumbs.....40&12½%
Shoe.
Cast.....per doz. $0 75
Tack.
All Iron.....per doz. $0 35
Pol'd Iron, Hickory hdl. " 50
Mall. Iron, Inlaid..... " 1 55
Magnetic..... 1 2 3
Per doz.....$0.70 .80 1.00
Magazine.. .....per doz. 4 75

HAMMERS, HEAVY.

Heavy Hammers and Sledges.
Under 5 lbs.....80&5%
5 lbs. and over.....80&10%
Masons'.
Single and Double Face.....80&5%

HANDLES.

Auger.
Common Assorted....per doz. $0 38
Peck's Adjustable.... " 2 10
Ives' Adjustable.....per set, 1 35
Axe.....60%
Chisel.
Hickory, Tanged Firmer, Assorted, 33c; Large, 38c per doz.
Hickory, Socket Firmer, Assorted, 27c; Large, 30c per doz.
Applewood, Tanged, Firmer, Assorted, 29c; Large, 38c per doz.
Applewood, Socket, Firmer, Assorted .....per doz $0 24
Coal Pick.....50&10%
Drifting Pick.....50&10%
File, assorted, 13c; Large, 16c per doz.
Hammer.
Adze Eye.....per doz. $0 40
Blacksmiths'..... " 40c@70c
Machinists'..... " 45c@70c
Hatchet..... " 40
Hay and Manure Fork.....30%
Hoe and Rake.....30%
Plain.....per doz. $0 75
Varnished..... " 80
Screw Driver.
Assorted..... " 37
Large..... " 48
Shovel and Spade.....33⅓%

HANGERS.

Barn Door.
Nansen.....60&10%
Matchless.....70&10%
Storm King.....60%
World's Best.....50%
Wagner's Adjustable.....70&10%
Warehouse.....60%
Conductor P.
Griffin.....70&10%
Iwan's Perfection.....50%
Eave Trough.
Baker's.....per gro. $2 38
Imperial.....20%
Wire.....33⅓%
Parlor Door.
Acme.....per set, $3 75
Ives' Improved..... " 2 50
Lane's Standard..... " 3 50
Lane's New Model.... " 3 10
Le Roy Noiseless..... " 4 00
Richards'.....40-10&5%

HASPS.

Hinge, Wrought.....40%
With Staples—See Staples.

HATCHETS.

Crown.....50-10&5%
Cast Claw.....per doz. $1 20@1 45
Cast Shingling.... " $0 95@1 20
Germantown.....40%
Plumbs.....33⅓&5%

HAY KNIVES.

See Knives.

HAY RACK BRACKETS.

Wenzleman's No. 1.....per doz. $9 00
Wenzleman's No. 2..... " 9 00

HINGES.

Blind.
Clark's Gravity ... per doz. sets, 95c
Parker's.....65%
Shepherd's Noiseless, for Wood Casing.....per doz $1 05
Gate.
Clark's..... 1 2 3
Hgs & Ltch. . doz. $2.50 2.90 4.00
Hinges only... " 1.90 2 20
Latches only . " .70 .75
Knuckle.....per doz prs. $6 00
Leed's..... " sets 6 75
Superior..... " prs. 9 50
Spring.
American.....20%
Chicago.....25&5%
Columbia Dbl. Acting....40&10&5%
Gem.....25%
Ideal Detachable.....per gro. $11
Matchless.....30%
New Idea.....per gro. $8 00
Oxford.....20%
Wrought Iron
New Lists .....
McKinney
Light Strap Hinges.....60%
Heavy Strap Hinges.....65%
Light T Hinges.....55%
Heavy T Hinges.....45%
Extra Heavy T Hinges.....60%
Screw Hook and Strap.
6 to 12 in.....per 100 lbs. $3 75
14 to 20 in..... " " 3 65
22 to 36 in..... " " 3.40
Screw Hook and Eye.
⅜ in.....per 100 lbs. $6 75
½ in..... " " 7 75
½ in..... " " 9 75

HOES

Garden .....70&10%
Grub.
Extra.....70%
Hazel.....per doz. $5 00
Ladies' and Boys'.....75%
Mortar.....75&10%
Planter's Eye.....62½%
Weed.....75&15%

HOLLOW WARE—See Ware.

HOOKS.

And Eyes.
Brass.....50&10%
Iron.....65&10%
Awning.....per gro. $1 00
Belt.
Brown's.....70&5%
Jones'.....65&5%
Bench.
See Stops, Bench.

Box.
Inch..... 6 8 10 12
Per doz.....$1.35 1.65 1.75 2.30
Hinmason & Beckley's..per doz. $2 50
(See Goods, Bright Wire.)
Bush.
Common Axe Handle. per doz. $7 00
Chain.
Inch..... ¼&5/16 ⅜ 7/16 ½
Per 100...$7.60-8.10 9.75 11.50 12.60
Clothes Lines.
Japanned .....per doz 22c@24c
Galvanized..... " 40c
Coat and Hat
Cast Iron .... per gro. 72c@$1 50
Gem Wire.....70%
Conductor.
Malleable.....25%
Wrought.....20%
Corn.
Common, unpolished, per doz. $1 50
Little Giant..... " 3 25
Gate.
See Goods, Bright Wire.
Grass.
Common. Nos..... 2 3 1
Per doz.....$1.50 1.60 1.70
German.....per doz. 1 75
Little Giant..... " 2 75
Hammock.
With plate.....per doz. 50
With screw..... " 45
Lambrequin, or Drapery, per gro. .21c
Picture.....50%@50&10%
Potato and Manure.....70&12½%
Screw.
Brass.....80&5%
(See Goods, Bright Wire.)
Seat Spring .....per lb. 5½c

HOOPS, TUB.

Elastic ... per case of 2 doz.... $1 50

HOSE, GARDEN.

				Coupled, per ft.
Heron, 3 ply-¾" guar.	press		55 lbs.	7¼c
Crane.. "	"	"	75 "	8½c
Falcon "	"	"	95 "	9½c
Eagle "	"	"	120 "	10½c
Condor "	"	"	150 "	11½c
High Test "	"	"	200 "	12½c

COTTON COV. RUBBER HOSE.

High Grade-¾"-guar.	press.		400 lbs.	11¼
Special "	"	"	300 "	9½c
Leader "	"	"	100 "	7½c

HUSKERS.

Boss.
Nos..... B BB E 200
Per doz.....$2.00 2.00 1.75 .80
Nos..... L PP P K
Per gro.....$5.40 6.00 6.00 10.50
Nos..... 2000 3000 O
Per gro.....$3.50 2.90 24.50
Nos..... 60 59 64 68
Per doz.....$2.15 2.15 .85 1.45
Brinkerhoff's.
Per gro.....$14 40
Clark's.
No..... 1 63 200 400
Per doz.....$0.40 .75 .75 1.75
Nos..... 200s 40s 3s 4s
Per doz..... $0.85 .50 1.25 1.25
Nos..... A AB F
Per doz.....$3.00 $4.25 $2.50

IRON.

See Metals.—First column.

IRONS.

Curling.
X.....per doz. $0 40
Y..... " 50
Z..... " 58
Jewel..... " 85
Imperial..... " 1 00
Pinking..... " 70
Plane.
Wood Bench.....20&5%
Sad.
Charcoal.....per doz.$11 00
Common, polished, per 100 lb. 4 50
Common, nickel plated, 5 25
Chinese Polishing.....per doz. 7 40
Laundry, No. 1..... " 5 75
Laundry, No. 2..... " 6 25
Mrs. Pott's,
No. 50 J, Enterprise, per set 93
No. 55 J, " " 90
No. 50 T, " " 1 00
No. 55 T, " " 96
No. 50, Bless & Drake " 93
No. 55, " " 99
Tailors' Sad.....per lb. 5½
Tailors' Geese..... " 5½
Tuyere.
Single Duck Nest ....per doz $5 25
Double Duck Nest .. " 6 25
Sutton.....each.... 2 60

JACKS.

Locomotive.....70%
Wagon.
Oliver,
Nos..... 0 00
Each.....$0.60 $0.80
Standard.
Nos..... 1 2
Each.....$0.60 1.00
Wilcox.
Nos..... 1 2 3
Each..... $0.85 1.20 2.90

KETTLES.

Brass.....15%
Cauldron.....40&5%
Copper..... per lb., 27c
Maslin.....65%
Sugar.....50%

KNIVES.

Beet Topping.
Clyde, 9-in. Scimiter Blade, doz.$3 85
California..... 3 40
Cooper's Hoop.....15%
Corn.
Clipper.....per doz. $1 75
Disston's..... " 2 75
Earle's..... " 3 00
Woodford..... " 2 25
Drawing.
Standard.....70%
Adjustable.....15%
Barton's Carpenters' 10%
Folding Handle.....25&5%
Hay.
American, Sickle Edge...doz. $10 50
Canton, Sickle Edge..... " 8 25
Heath's..... " 8 00
Iwan's, Sickle Edge..... " 9 50
Iwan's, Impv'd Serrated . " 10 00
Lightn'g, Holt's Genuine. " 6 50
Lightning Pattern..... " 6 00
Wadsworth's Sp'r Point.. " 8 50
Hedge.
Challenge.....per doz. $6 00
Disston's..... " 3 75
Mincing.
Common, Single..... " 40
Common, Double..... " 50
Streeter, 4-Blade..... " 1 30
Streeter, 6-Blade..... " 2 00
Putty.
Common.....per doz. $0 60@1 00
Lander'r..... " 1 40@1 75
Scraping.
Beech Handle..... 75@1 00
Lander's..... 5 25@6 00

KNOBS.

Door.
Mineral.....per doz. $0 80
Parcelain..... " 90
Jet..... " 90

LADDERS.

Common Long.
Per ft.....9c@14c
Extension.
Per ft.....14c
Step.
Common, per ft.....7½c
Common, with Shelf, add 10c.
Keystone.....15c
Triumph, per ft.....20c

LANTERNS.

Bull's Eye Police.
3 -in. Flash Light....per doz. $6 00
2½-in. Regular..... " 4 90
3 -in. Regular..... " 5 50
Tubular.
Buhl . . . . . .net prices.

LEADERS, CATTLE.

Nos..... 1 2 3
Per doz..... $0 55 .70 2.75

LEATHER, LACE.

Cut.....33⅓%
Sides.
Ex. Quality ..... per sq. ft., 27

LEATHERS, PUMP.

Valve and Plunger.....10%

LIFTERS.

Stove Cover.
Coppered.....per gro. 1 75@3 65
Ideal..... " 5 50
Alaska, Coppered " 4 00
Alaska, Nickeled. " 5 00
Transom.
Payson's.....80%

LINES.

Chalk.
Twisted in 20-ft. hanks.
Nos.... 4 6 7 8 9
Grpss...$1.50 2 00 2 25 2 50 3 00
Twisted in 50-ft. balls.
Nos..... 1 2 3 4
Per doz.....25c 30c 35c 41c
Braided in 20-ft. hanks.
Nos..... 0 1 2 3
Per doz.....22c 25c 31c 35c
Mansons', in 100-ft. hanks...doz. 80c
Clothes.
60-ft. Jute.....per doz $0 95
72-ft. Jute..... " 1 15
60-ft. Sisal..... " 1 40
72-ft. Sisal..... " 2 15
50-ft. Cotton..... " 1 15
50-ft. Braided Cotton " 25

LINING, STOVE.

In Bricks .....per crate. 42c

MACHINES.

		Without Augers	With Augers
Boring.			
Angular.....	per dos.	3 00	4 40
Upright.....	"	2 00	4 00
Leather Riveting.			
Chicago, Pomeroy....	per doz.	$9 00	
Excelsior.....	"	2 00	
Handy.....	"	2 00	
Little Giant.....	"	3 00	
Pony, Pomeroy.....	"	7 20	
Washing.			
Winner.....	per doz.	54 00	
Keystone.....	"	54 00	
U. S. Steel.....	"	60 00	
Advance, f.o.b.Chicago	"	24 50	

MAIL BOXES.

See Boxes.

MALLETS.

Carpenters'.
Fibre Head, Small....per doz. $5 00
" " Medium. " 5 75
" " Large... " 7 00
Round Hickory..... " 2 25
" Lignumvitæ... " 4 00
Square Hickory..... " 2 25
" Lignumvitæ... " 4 50
Tinners'.
Applewood..... " 1 70
Hickory..... " 1.00@1 50
Hickory Sheet Iron... " 1 50

MATS

Door
National Rigid.....50, 10&5%
Acme Steel Flexible.....33⅓%
Stove.
No. 2.....per gro. $3 25
No. 1..... " 3 50
No. 1 Asbestos Toasters, or wire-covered Stove Mats, with handle.....per doz. 1 10
No. 2 Asbestos Toasters, with ring.....per doz. 60

MATTOCKS.

Plumbs.....65&10%
Extra.....60%

MAULS.

Iron, lbs..... 10 13 16 18
Per doz.... $4.00 4.50 5.25 5.60
Wood face, lbs..... 10 12 14
Per doz..... $5.00 5.50 6.00
Wood Choppers'.
Lake Super'r & Oregon Pat. 75&10%

MEASURES.

	½ pk.	1 pk.	bu.
Galvanized, per doz.	$2.25	3.00	3.85
Japanned.. "	1.75	2.45	3.15

MICA.

First Quality.....20%
Second Quality.....25%

MILLS, COFFEE.

Enterprise.....25%
Parker.....40-12½&2½%
Arcade.....40-12½&2½%

MITRE BOXES.

See Boxes.

MOPS.

Erie.....per doz. $3 15
Handled Cotton.
Pounds..... ¾ 1 1½ 2
Per dozen....$2.00 2.35 2.65 3.25

MOWERS, LAWN.

Gladiator—B. B.
Inches..... 16 18 20
Each..... 6.50 7.25 8.00
King Universal—B. B.
Each..... 5.25 5.75 6.00
Inches..... 14 16 18
Big Giant..... 3.50 3.90 4.25
Little Giant..... 2.50 2.65 2.75
Philadelphia.
All Styles, except A & E, 60, 10&10%
Style A.....50&10%
Style E, High Wheel....60, 10&10%
Drexels.....40%
All Day .....Net Price

NAILS.

Cut Steel .....rates, $2 50
Cut Iron..... 2 60
Wire.
Small Lots..... $2 40
Carload Lots..... 2 35
Cement Coated..... 2 30
Horse Shoe.
Ausable.....55&5%
Capewell.....15%
Perfect.....55&5%
Putnam.....20&5%
Star.....35&5%
Clover Leaf .....per lb., net, 10½c
Picture.
Brass Heads.....25%
Brads.....85%
Furniture.....15%

NAIL PULLERS.

See Pullers.

NAIL SETS.

See Sets.

NETTING, POULTRY.

Galvanized beforeweaving .80,10&2½%
Galvanized after weaving.....80&7½%
Cut Pieces.....65&5%

NIPPERS.

End Cutting.
Stubb's Pattern. Inches 5½ 6
Per dozen..... $4.00 4.25
End and Diagonal Cutting.
Swedish Side.....75%
Utica Drop Forge & Tool Co....60%
Hoof.
Heller's.....40&10%
V. & B.....55&5%

NOZZLES.

Hose.
Genuine Gem.....per doz. $3 90
Magic..... " 3 60
Mystic..... " 3 00

NUTS, HOT PRESSED.

Square Blank.
In ¼ 5/16 ⅜ 7/16 ½ ⅝ ¾
lb 9½c 8c 6½c 5½c 5½c 5c 4½c
Square Tapped.
In. ¼ 5/16 ⅜ 7/16 ½ ⅝ ¾
lb. 12½c 10½c 8c 7½c 6½c 6½c 6c
For 5-lb. boxes add ½c per lb. to above prices.

OILERS.

Chase Pattern.
Brass and Copper.....60%
Zinc.....60%
Engineers'.
Cannon.....55%
Tin .....per doz. $2 00@$2 25
Machine.
Common.....per doz. $0 58
Copper Plated Steel... " 1 00
Malleable Iron.....60, 10&5%
Japanned.....65@75c

OPENERS.

Box.
Inches..... 10 12 14
Flat.....per doz. $2.85 3.60 4.15
Round.... " 2.10 2.25 2.75
Can.
Delmonico .....per doz $1 30
Never Slip..... " 65
Crate.
V. & B..... " 5 75

OUTFITS, COBBLING.

Combination.....per doz. 11 00
Economy..... " 4 65
Family..... " 9 75

PADLOCKS.

Standard Wrought.....75&5%
Champion.....50%
Eureka.....40, 10&5%
Yale.....60&5%

PAILS.

Cream.
14-qt , without gauge, per doz. $2 50
20-qt., " " " 3 00
20-qt., with gauge.... " 3 50
Sap.
10-qt., Galvanized, per 100....$13 00
12-qt., " " 14 50
14-qt., " " 16 25
16-qt., " " 17 75
10-qt.,IC Tin..... " 10 25
12-qt., " .... " 11 75
14-qt., " .... " 13 00
10-qt.,IX Tin.... " 12 75
12-qt., " .... " 16 00
14-qt., " .... " 17 00
Stock.
Galv'd, qts. 14 16 18 20
Per doz..... $3.75 4.00 4.75 5.25
Water.
Galvanized... qts. 10 12 14
Per doz..... $1.95 2.20 2.45
Wood.
Cable, 2-Hoop.....per doz. $1 70
Cable, 3-Hoop..... " 1 90
Cedar, 3-Hoop..... " 2 85
Standard, 2-Hoop.... " 1 60
Standard, 3-Hoop.... " 1 80

PANS

Dripping.....60&5%
Fry
Common .....75&10%
Acme 70%
Roasting.
Paxton,
Nos..... 1 2 3 4
Per doz.... $4.75 5.75 6.50 7.50
Neverburn ... 4.60 4.50 5.50 6.00
Savory, No. 200.....per doz. $8.00

PAPER.

Building.
Plain.....per 100 lbs. $1 25
Tarred..... " 1 35
Tarred Felt..... " 1 65
No. 20, Red Rosin....per roll, 40
No. 30, Red Rosin.... " 55
Sand and Emery.
Star ..... low list, 50%
B. & A.....50%
Wrapping.
Drab Fiber.....per lb. $0 00
Rag..... " 0 00

PARERS.

Apple.
Bay State.....per doz. $13 00
Turntable..... " 0 00
White Mountain..... " 5 00
Reading..... " 7 00
Potato.
Goodsell's Saratoga, 10½ in., doz. 6 50
Goodsell's Saratoga, 5 in., doz. 5 50

PICKS.

Adze Eye Ore.....70%
Drifting and Poll Picks.....70%
Plumbs, Railroad.....70%
Surface.....70%

PINCERS.

Carpenters', cast steel,

Inches.....	6	8	10	12
Per doz.....	$2.00	2.60	2.95	3.75

Blacksmiths'.....45%
Heller's.....40%

PINS.

Clothes.
Common.....per box of 5 gro $0 52
Hoyt's..... " " 31
U. S..... " " 70
Picket.
Fluted, 15-in.....per doz. $0 70
Fluted, 21-in..... " 1 60
Spiral..... " 1 90

PIPE.

Conductor.

	Gal. Steel	Charcoal
L. C. L. to Dealers:—		
Eastern	70&10%	50&10&2½%
Pittsburgh	75&10&5%	60%
Central	75&10%	60%
Northwestern	75&7½%	60%
Western	70&12½%	50&12½%
Tennessee	70&10%	50&12½%
Southern	70%	50&12½%
Southwestern	70%	50&5%

Terms 60 days; 2% Cash 10 days.
Factory shipments generally delivered.

Lead.
Full coils .....per lb. 7½c
Cut coils..... " 7¾c
Stove

Acme—Inches....	5	6	7
Smooth, per jt...	8½c	9½c	10½c
Planished, "	32 c	33 c	43 c
Peerless—Smooth,	7½c	8 c	9½c
Polished.....	14½c	15½c	18 c
Planished.....	28 c	31 c	35½c
Made-up—Inches..	5	6	7
Smooth.....	7½c	8 c	9½c

7 to 6 in. Smooth Tapers, pr jt...13c
6 in. Smooth T's..... " 27c
7 to 6 in. Planished Tapers.....45c
Yale Patent Lock Pipe—Stove.

Blue Steel:	5"	6"	7"	7"to6"
	—Cents—			
Battle Axe Blue...	7	7½	9½	10½
Can't Slip " ..	7½	8½	10	11
Peerless " ..	7½	8½	10	11
Duplex " ..	10	11	13	14
Yale, Rus. Fin....	15	16	17	18
Duplex Planished.	29	31	37	38
Galvano, Gal.....	15	16	17	18

If wanted made up, add per joint or grooved, 1c; riveted, 1½c. Grating made-up pipe extra.
Wrought Iron Gas Pipe.
⅛@¼-in., black.....discount, 60%
⅜@½-in., black..... " 60,10&5%
¾-in. to 6-in., black... " 70%
7-in. to 12-in., black... " 62½%
⅛@¼-in., galvanized.... " 42%
⅜@½-in., galvanized.... " 50%
¾-in. to 6-in., galvan'd " 57½%
7-in. to 12-in., galvan'd " 45%

PLANES.

Sargent Iron Bench.....60%
Stanley Iron Bench .....25&5%

PLATES, TIN.

See Metals in Column 1.

PLIERS.

Button's—Ins.. 4½ 6 8 10
Per doz..... $2.75 3.35 4.15 5.15
Button's Pattern.
Inches..... 4½ 6 8 10
Per doz..... $2.25 2.75 3.25 4.25
Cutting.
Bernard's.....30%
Lodi.....50%
End and Diagonal Cutting
Swedish Side.....70%
Utica Drop Forge & Tool Co....50%
Fencing.
Farmers' Choice.....per doz. $8 00
Russell's..... " 8 25
Flat and Round Nose.
Bernard's.....30%
German.....65%
Lodi.....50%
Paragon.....50%
Gas.—Inches.. 7 8 10 12
Per doz..... $3.00 3.50 4.50 5.50

Tinners'.
Hollow.....40%
Solid.....each, 5½c

PLUMBS AND LEVELS

Common .....60&10&10%
Cook's.....40%
Davis' Iron 25%
Davis' Inclinometer.....15%

POINTS

Drive Well Points.....75&5%

POKERS, STOVE.

Wr't Steel, str't or bent, per doz. $0 55
Wr't Steel, wood band'ls " 80
Nickel Plated, coil band'ls " 65

POKES, ANIMAL.

Cracker Jack, wr't steel, per doz. $4 50

POLISH.

Metal.
Pride of the Bar..... $1 60
Putz Cream,

Pts.....	1-6	½	⅓
Per doz.	$0.80	1.10	1.65
Pts.....	1	2	3	8
Per doz..	$2.75	4.50	7.50	12.50

White Silk, half pints, per doz, $2 00
White Silk, 6-oz. cans, per doz. 1 00
Wondershine,

Pts.....	1-6	½	1	2
Per doz.	$0.70	1.35	2.25	3.00

George William Hoffman.
U. S. Metal Polish Paste, 3-oz boxes, per doz , 50c; per gro 4 55
½-lb. boxes.....per doz 1 20
1-lb. boxes ..... " 2 25
U. S. Liquid, 8-oz cans, per doz , $1.25.....per gro 12 00
Barkeepers' Friend Metal Polish .....per doz 1 75
.....per gro 18 00
Shoe.
M. C. D.....per doz.....36c@50c
F. C. O..... " 40c
T M..... " .55c@$1 75
Imperial.....per gro 5 00
Stove.
Black Eagle, 1-lb. cans, pr gr, $15 00
Black Silk—
5-lb. pail..... $0 70
Paste, 5-oz. cans....per doz. 75
Paste, ½-lb. cans .... " 1 05
Liquid, ½-pt. cans... " 1 05
Liquid, 6-oz. cans... " 75
Steel Range Gloss.... " 1 25
Blackene, 1-lb. cans...per gro. 13 00
Blackene, 1-lb. cans...per gro. 13 00
Black Jack, ½-lb. cans. " 9 25
Dixon's Card. of Iron. " 5 75
Nickel Plate..... " 4 50

POPPERS, CORN.

Round or Square, 1-qt. per doz. $1 05
Square, 1½-qt..... " 1 15
Square, 2-qt..... " 1 35
4-qt..... " 3 75

POTS, FIRE.

Bernz.....each, $3 85
Clayton & Lambert's,each,$4 75@6 25
Gate City.....each, 6 25
Gem.....each,$6 75@8 50

POWDER.

See Ammunition.

PRESSES, FRUIT AND JELLY.

Enterprise Manufacturing Co.....25%
Henis.....per doz. $1 85

PRIMERS

See Ammunition.

PRUNERS.

Disston's Pole.....per doz. $6 50
Henry's Improved..... " 75&10%
Water's Improved..... " 80%

PULLERS.

Cork.
Daisy..... each, $3 10
Phœnix..... " 1 40
Quick and Easy..... " 2 70
Nail.
Giant.....per doz. 10 50
Giant Pattern..... " 6 00
Jumbo..... " 9 00
Tack—Giant..... " 40

PULLEYS.

Awning—Jap'd.....60%
Clothes Line.....50&10%
Hay Fork.
Iron Wheel, 5-in.....per doz. $1 75
Wood Wheel, 6-in.... " 1 75
Wood Wheel, 6-in., pass knot, ...per doz. 2 15
Hot House—Jap'd.....50&10%
Screw—Jap'd.....60%
Side—Jap'd.....50&10%
Sash.
Common.....per doz. $0 20
Common-Sense, 2-in.. " 20
Empire Pattern, 2-in.. " 20
Ideal..... " 20
Steel..... " 25

PUMPS.

Pitcher Spout.

Nos.....	1	2	3	4
Each.....	$1.00	1.15	1.30	1.70

Spray.
Blizzard.....per doz.$14 50
Cyclone, tin..... " 3 40
Cyclone, copper..... " 6 75
Daisy..... " 9 00
Little Giant.....each,... 2 25

PUNCHES.

Conductors'.
No 22.....per doz $2 25
Machine.....per lb 19
Saddlers'.
Common ... .per doz 60c@70c
Good..... " 72c@84c

PUTTY.

In Bladders.
Strictly pure.....per 100 lbs. 2 35

RAIL.

Barn Door.
Matchless, 1-in..... 3 c
Matchless, 1½-in..... 3½c
Storm King..... 4 c
Sliding Door.
Painted steel.....per ft. 4½c
Bronzed wrought iron...per ft. 8½c

RAKES.

Coal or Wood.....per doz. $5 20
Garden.
Steel.....70%
Steel, bow.....70%
Malleable iron, heavy.....60&10%
Hay.
Wood.....$1 50@$2 00
Lawn—Wood.
XXX.....per doz. $3 00
Automatic..... " 5 25
Lawn Queen..... " 2 75
Jumbo, 36 teeth..... " 5 25

RASPS—See Files.

RAZORS.

Bo-ras-ic.....50%
Red Devil.....50%
Tree Brand.....50%

REGISTERS.

List December 5, 1904.
Black and White Japanned, Reg. and Border .....70&10%
On Face .....75&10%

RINGS.

Bull.

Copper.....	2½ in.	3in.
Per doz.....	$1 10	$1 40
Rea's Improved Self-Piercing copper, pr doz	2 00	....
Steel, per doz.....	85	95
Nickel plated.....	1 35	....

and Ringers—Hog.
Blair's Rings.....per doz. $0 58
Blair's Ringers..... " 75
Brown's Rings..... 50
Brown's Ringers..... " 80
Champion Ringers.... " 1 60
Hill's Ringers..... " 70
Hill's Ring, boxes.... " 47
Major Rings..... " 60
Perfect Ringers..... " 95
Wolverine Rings..... " 1 40
Wolverine Ringers.... " 80
Fruit Jar.
White.....per lb.....30c
Key.
Split, round.....per doz. $0 17
Split, square..... " 32
Ball, round..... " 32

RIVETS.

and Burrs.
Copper Belt.....40%
Coppered Iron.....60&10&5%
Tinners'.....60&10%
Hame.....per lb. $0 10
Slotted Clinch per doz 40c@45c
Tubular
Nos 1 and 2 assorted sizes, doz, 45c

RIVET SETS

See Sets.

ROPE.

Cotton.
¼, 5-16 in. Com on reels. .per lb. 11½c
¼, 5-16 in Com. in coils. . " 12 c
¼, 5-16 Imperial in coils.. " 21 c
Sisal.
1st Quality ..... 12 c
Hardware Grade, rates, per lb...10 c
Pure Manila.
1st quality..... per lb.15½c
Hardware Grade, rates... " 14½c

RULES.

Boxwood.....50&10%
Ivory.....

SASH WEIGHTS.

See Weights.

SAWS.

Back.
Disston's.....35%
Jackson's.....35%
Butchers'.
Disston's.....30%
Circular.
Disston's.....50%
Hiles'.....50&10%
Compass.
Common.....per doz $1 35@1 60
Disston's .....%35
Cross-Cut
Disston's.....45%
Dehorning.
Disston's.....per doz. $5 75
Hack.
Disston's.....25%
Keystone.....30%
Hand and Rip.
Brown's.....30%
Disston's No. 7.....30%
Disston's Nos 8, D8, 12, 76, 112, D100, and 120 (new list).....25%
Keystone.....30%
Enterprize, hand.....per doz. $5 00
Our Saw, hand..... " 4 00
Our Saw, rip..... " 4 50
Keyhole—Disston's.....25%
Kitchen.
Sterling 25%
One Man.....50%
Panel
Brown's 30%
Disston's No. 7.....30%
Disston's No. D100.....25%
Pruning.
Brown's 25%
Disston's 25%
Wood
Common.....per doz. $4 50
Clover Leaf..... " 6 00

SAW BUCKS—See Bucks

SAW SETS—See Sets.

SAW TOOLS—See Tools

AW FRAMES.

Common, plain.....per doz. $1 25
Common, painted..... " 1 70

SCALES.

Counter.
Pelouze.....40&10%
Platform.
Osgood.....50%

SCOOPS.

Grain.
½-bu. "Hercules".....per doz. 13 75
1-bu. "Hercules"..... " 15 00

SCRAPERS.

Box.
Triangular.....per doz. $4 00
Cabinet.
Cast Steel . . . . per doz , 60c@75c
Road.

Cubic ft.	7	5	3
Without run's, ea.	$4.00	3.75	3.50
With runners, ea..	4.25	4.00	3.75

SCREWS.

Bench.

Iron, in.....	1	1½	1½
	$3.50	4.00	4.75

Wood, white maple...per doz. $3 50
Hand—Wood.....10%
Hand Rail.....80&10%
Jack.....70&10&5%
Lag or Coach—all sizes, gimlet pointed.....75&5%
Saw—Centennial

Nos ..	1	2	3	4	5	6
Per doz.	18c	20c	26c	30c	23c	25c

Wood.
F. H. Bright.....87½&5%
R. H Blued.....85%
F. H. Jap'd.....82½%
F. H. Brass.....85%
R. H. Brass.....80%
R. H. Nickel Plated.....75-10%

SCYTHES.

Be Ve Be, grass.....per doz. $8 50
Clipper, grass..... " 8 00
Clover Leaf Dutchman. " 8 00
Honest Dutchman..... " 8 00
Be Ve Be..... " 8 00

SHAVING SETS.

Smith & Hemenway.....60%

SETS.

Nail.
Round, common.....per doz. $0 33
Square, common..... " 42
Octagon, common.... " 33
No. 5, square..... " 75
Cup point, knurled... " 75

Rivet.
Farmers'.....per doz. $1 20
Tinners'.....50&10%

Saw.
Aiken's Pattern.....per doz. $3 50
Common Lever..... " 1 20
Disston's Monarch.... " 6 50
Disston's X Cut ..... " 12 00
German..... " 1 05
Morrill's Old Style.... " 5 00
Morrill's Pattern..... " 3 25
Leach's..... " 80
Nash's Hand..... " 3 15
Nash's X Cut..... " 4 20
Stillman's Lever..... " 1 30
Stillman's X Cut..... " 2 50

SHARPENERS, SKATE.

Diamond..... per doz $1 00
Smith & Hemenway 20%

SHAVES, SPOKE

Iron.....per doz $1 10@1 85
Wood ..... " 2 75@4 75
Bailey's .....50&5%
Goodell's 15%

SHEARS

Pruning
Buckeye, No. 1.....per doz $5 75
Buckeye, No. 2..... " 7 40
California Pat., 9-in.. " 3 20
Cailfornia Pat., 10-in.. " 4 00
Draw Cut, No. 3..... " 13 75
Draw Cut, No. 4..... " 16 50
Henry's Pat. 0 01 14 012
Per doz.....$1.40 2.10 2.90 2.80
Star.....per doz $4 00

Sheep—No BBA.
Inches..... 6 6½ 7
Reg. Grip.....$11.25 11.50 12.00
Nar. Grip.,doz.... 11.00 11.25 12.25

Tinners'—See Snips.

SHEAVES, SLIDING DOOR.

Common.
Inches..... 3 4 5
Per set..... $0.34 .42 .70

Hatfield's.
Per set..... $0.75 1.00 1.60

SHELLS—See Ammunition.

SHELLERS, CORN.

Union.....per doz. $6 75

SHIELDS.

Expansion Bolt Shields.....50&10%

SHOES.

Conductor.....60&10%

SHOE POLISH—See Polish.

SHOT—See Ammunition.

SHOVELS AND SPADES.

Coal.
No 2 Woodford.....per doz. $5 50
No. 182..... " 6 00
Ames' new list .....Discount, 12½%

Per doz.
Neverbreak, hollow bck, blk. $15 75
National.... " " " 14 75
Buckeye.... " " " 10 00
Mohawk.... " " " 9 00

Drain.
Iwan's Perfection.....50%

Railroad, etc.
Black Diamond.....per doz. $1 50
Crescent..... " 5 75
Keystone..... " 8 75
Star..... " 4 75
Vaterland..... " 9 50
Hollow Back..... " 4 75
Ames, new list .....Discount, 12½%

Snow.
Per doz.....$1.65@$9.00

Alaska Steel.
D Handle.....per doz. $3 50
Long Handle..... " 3 00

SINKS.

Cast Iron.
Painted.....50&10%
Enameled, White.....50&10%

Wrought Steel.
Painted, new list.....40-10&5%

SLEDGES—See Hammers.

SNAPS, HARNESS.

Champion.....33⅓%
German Pattern.....30&5%
Judd's Pattern.....50%

SNATHS.

Double Ring, Bush.....per doz. $6 00
Patent Loop, Bush..... " 5 75
Patent Loop, Grass..... " 5 50

SNIPS, TINNERS'.

Clover Leaf.....40&10%
National.....40&10%

SOLDER—See Metals.

SPRINGS, DOOR.

Perfect.
Nos..... 1 2 3 4
Per doz.....30c 35c 40c 54c

Reliance.
Per doz . . . light, $1.25; heavy, $2 50

Star.
Per doz . . . light, 90c; heavy, $1 35
Torrey's.....per doz. $1 35
Warner's No..... 11 13
Per doz..... 75c $1 35

SQUARES.

Steel and Iron.....70&10%
(Add for bluing, $2.50 per doz., net.)
Mitre.
Try.
Try and Bevel.
Try and Miter.
Fox's.....per doz. $5 75
Winterbottom's.....70%

SQUEEZERS, LEMON.

Common Wood.....per doz. $0 70
Porcelain Lined, Wood.. " 1 25
Boss, malleable iron.... " 1 20
Iron Frame, porc'n bowl " 1 90
Iron Frame, glass bowl . " 2 35
Little Giant, tin'd iron . " 4 00
Drum, japanned..... " 3 60
Drum, nickel plated ... " 4 50

STAPLES

Blind.
Barbed.....per lb : ..9½@9½c
Butter Tub..... " .....8 @8½c
Fence—less than carload.
Polished.....per 100 lbs. $2 30
Galvanized..... " 2 60
Netting.
Galvanized.....per 100 lbs. 4 00
Wrought.
Wrought Staples, Hasps and Staples, Hasps, Hooks and Staples, and Hooks and Staples.....80-10&10%
Extra heavy.....75&10%

STEELYARD.

Discount 25%.

STONES.

Axe.
Hindostan.....per lb 5½@7 c
More Grit..... " 9½c
Washita ..... " 17 c
Emery.....60%@60&5%
Oil—Mounted.
Arkansas Hard.....per doz.$23 00
Arkansas Soft..... " 15 50
Hindostan .....per lb 6½@6½
Oil—Unmounted.
Arkansas Hard.....per lb $2 05
Arkansas Soft ..... " 1 10
Lily White..... " 45
Queer Creek..... " 15
Ouachita..... " 38
Washita..... " 26
Sythe.
Black Diamond.....per gro. $8 00
Crescent..... " 4 25
Gem Corundum..... " 7 50
Green Mountain..... " 4 50
La Moille ..... " 7 00
Quinnebog..... " 5 00
Red End ..... " 3 75

STOPS, BENCH.

Hotchkiss'.....per doz. $3 50
Stearns'..... " 4 75

STOPPERS, FLUE.

Common.....per doz. $0 40
Crown..... " 45
Gem, flat, painted..... " 85
Gem, cor'd, decorated... " 70
Kirch's..... " 90
Perfect..... " 70@85
Skinner's Common Sense " 80

STOVE PIPE—See Pipe.

STOVE BOARDS—See Boards

STOVE POLISH—See Polish.

STRAPS.

Scoop.....per doz prs., $1 85
Skate..... " " 60@70c

STRETCHERS.

Carpet.
Bullard's.....per doz. $3 90
Excelsior..... " 5 25
Malleable Iron..... " 70
Perfection..... " 6 30
King..... " 4 50

Wire.
N. S. Elwood's.....per doz. $6 00
O. S. Elwood's..... " 6 00
Little Giant..... " 5 75
Safety..... " 10 00
Star Lever..... " 6 25
Canton Tackle Block. " 9 50
Warner's ..... " 6 25

SWIVELS.

Malleable Iron.....per lb. $0 70
Wrought Steel.....per gro. 4 50

TACKS.

American Cut.....90&15%
American Wire.....85&20%
Bill Posters Cut.....90&20%
Blued Carpet.....90&10%
Tinned Carpet.....90&10%
Gimp.....90&10%
Upholsters' Cut.....90&20%
Upholsters' Wire.....90&10%
Double Pointed.....90%
Copper.....per lb. 32c
Canvas Nails.....75&5%
Clout Nails.....75&10%
Hungarian Nails.....80%

TAPES, MEASURING.

Asses' Skin.....40&10%
Bend Leather.....20%
Patent Leather.....20%
Lufkin's Steel.....25%
Lufkin's Metallic.....30%

TEE BEVELS—See Bevels.

THERMOMETERS.

Tin Case.....per doz. 80c@$1 25
Wood Back..... " $2.00@12 00
Glass..... " 12 00

TIES.

Bale.
Single Loop.....80&5%
All other kinds.....70%
Cow—See "Chains."

TOOLS, SAW.

Disston's Universal.....40%
Miniature.
Smith & Hemenway.....25%

TRAPS.

Fly.
Ballon.....per doz. $1 25
Harper's..... " 1 35
Game.
Newhouse.....40&10%
New Victor.....70&10%
Mole.
Reddick's.....per doz. $6 00
Mouse and Rat.
Wood Choker ..per doz. holes $0 13
Tin Choker..... " " 75
Delusion.....per doz. 1 15
Marty Rat..... " 6 25
Marty Rat Imitation. " 3 50
Marty Mouse..... " 3 00
Marty Mouse Imitation " 2 00
Hold-em, wire rat.... " 3 75

TROWELS.

Brick.
Clover Leaf.....30%
Brade's.....15&5%
Disston's.....30%
Rose's.....20%
Plasterers'.
Clover Leaf.....40%
Disston's.....25%
W. & McP.....25%

TRUCKS.

Bag.....each, $2 75
Handy..... " 1 85
Warehouse.....50&10%
No..... 1 2 3
Half Ironed..... $3.00 3.85 5.50
Full Ironed..... 3.15 4.50 6.45

TUBS, WASH

Standard, Wood Ex.
Nos..... 2 1 large
Per doz.....$5.00 6.00 7.00 9.50
Dowell.
Per doz..... 5.35 6.35 7.00 9.50
Cedar.
Per doz.... 6.10 7.10 7.90 10.80
Indurated.
Per doz..... 8.55 9.45 10.80 13.50
Galvanized.
No..... 1 2 3
Per doz.....$6.00 6.75 7.75

TWINE.

Per lb.
3-ply Cotton Wrapping 25c
4 " " " 25c
" " Extra Wrapping.....27c
4 " " " Hvy. Wrapping 25c
4 " " Wrapping on tubes....27c
3 " " " " cones....25c
4 " " " " " 25c
India Hemp, ¼-lb. balls 19c
" " ½-lb. " 18c
" " ¼-lb. " .....doz. 75c
2-ply Jute, ½-lb. " 14c
3-ply Jute, ½-lb. " 13c
Jute Wrapping, ½-lb. balls.....14c
Jute Wool, 1-lb. balls.....9½c
Seins.
Nos..... 9 12 15
Soft.....per lb 26½ 26 25
Med..... " 26½ 26 25
Hard..... " 27 26½ 26
Staging, ½-lb. ball, size 21.....26½c
" " " " 24.....26c
" " " " 27.....26c
Bagging " " 23c
3-p y "B" in hanks 18c
4- " "B" " 18c
3 " "A" " 27c
3 " Silver Finish, in hanks...37c
Fodder or Lath.
130 strand.....6½c
200 strand.....—c

VISES.

Phœnix.....30%
Phœnix Oval Slide.
Inches..... 2½ 3 3½ 4½
Each..... $1.25 1.50 1.85 2.75
Parker's Parallel.....18&20%
Parker's Victor.....15%
Parker's Combination.....75%
Solid Box.....40&5%
Adams' Mechanics'.....each 2 50
Williamson's Universal.....60%

WARE.

Stove Hollow Ware.
Plain or Unground.....50%
Ground Ware.....45%
Enameled Ware.....33⅓%
Country Hollow Ware, per 100 lbs. $3 00
White Enameled Ware.
Maslin Kettles.....60&10%
Covered Ware.
Tin'd and Turn'd.....35&10%
Enameled.....45&10%
Glue Pots,
Tinned.....25%
Enameled.....30%
Enameled.
Cherry Blossom and Chrysolite..50%

WASH BOARDS—See Boards.

WASHERS.

Standard O G. cast iron . . .per lb. 2½c
Wrought iron in bulk, per lb :
In. ½ ⅝ ¾ ⅞ 1 1⅛ 1¼
9c 6½c 5c 4½c 4½c 4½c 3½c
Wrought steel in 5-lb. boxes, per lb.:
In. ½ ⅝ ¾ ⅞ 1 1⅛ 1¼
10c 7c 6c 5½c 5c 5c 4½c

WASHING MACHINES—See Machines.

WEDGES.

Ax.....per doz. $0 30
Galling.....per lb. 10½
Saw..... " 8½

WEANERS.

Calf.
Fuller's, per doz.....$2 00 to $2 50
Tyler's Safety, per doz 1 85 to 2 40
Carroll's, per doz..... 3 00 to 3 75
Standard, per doz..... 3 00
Hoosier, per doz..... 3 50 to 4 00

WEIGHTS.

Hitching.....per lb. 2½c
Sash—f.o.b. Chicago....pr ton, 26 50

WHEEL BARROWS.

Common Railroad.....per doz. $17 00
Heavy Railroad..... " 24 00
Panama Steel Tray.... " 30 00
Klondike Steel Tray.. " 28 00

WHEELS.

Corundum.....70&10&5%
Emery.....75&5%
Well. Inches.. 8 10 12 14
Per doz..... $2.40 3.25 4.00 6.00

WIRE.

Barbed. Painted. Galv'd
Carloads . . per 100 lbs. $2.65 $2.95
Less than car " 2.70 3.00
Brass.
In coils.....20%
In 1-lb. spools, new list.....50%
Broom—Tinned . . . 60&10&10&10%
Cable—Same price as Barbed Wire.
Copper.
In coils.....20&10%33⅓%
1-lb. spools, new list.....50&10%
Fence—Smooth.
Nos. 6 to 9, An'eal'd, pr 100 lbs. $2 30
Nos. 6 to 9, Galv'd.. " 2 60
Hair—New List.....50%
Market.
Bright, full bdles.....70&5%
Bright, broken bdles.....70%
Coppered, full bdles.....70%
Coppered, broken bdles.....65&10%
Tinned, full bdles.....75&5%
Tinned, broken bdles.....65&10%
Picture—In coils . . . . 80%@80&10%
In 5-lb. spools.....per lb. 26c
Plain—Small lots..... $2 10
Car lots..... 2 05
Small spools 5c per 100 higher

WRENCHES.

Acme Standard.....60%
Alligator No. 1.....85cnet
Always Ready.....50%
Coe's Standard.....40&10&5%
Agricultural.....75&5%
Ellis Adjustable.....25%
Malleable "S".....per lb. 08c
Malleable..... " 08c
Stillson Pipe.....70%

BEMIS & CALL'S WRENCHES.

Improved Adjustable S nut.....40%
Improved Adjustable S pipe 40%
Briggs' Pattern nut.....40%
Combination Bright.....40&10%
Combination Black.....40, 10 & 5%
Steel Handle nut.....50%
Merrick Pattern nut.....50%

WRINGERS.

No. 22, Guarantee....per doz, $32 50
No. 110, Guarantee.... " 32 50
No. 110, Brighton..... " 23 50
No. 110, Bicycle..... " 31 50
No. 500, Royal..... " 32 50
No. 350, Universal..... " 28 00
No. 300, Novelty..... " 28 00
No. 310, Keystone..... " 28 00
No. 100, Rival..... " 27 50

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CLASSIFIED LIST.

Acetylene Generators

Ideal Epworth Acetylene Co.· Waterloo, Iowa and Johnstown, Penna

Augers—Post Hole

Iwan Bros., Streator, Ill

Boilers—Steam

Boynton Furnace Co., Chicago, Ill
Kellogg-Mackay-Cameron Co., Chicago, Ill

Boiler Handles

Berger Bros. Co., Philadelphia, Pa

Bolts

Columbus Bolt Wks., Columbus, O
Star Expansion Bolt Co., New York, N.Y

Boxes—Hardware

Green Co., A. H., New York

Brakes—Cornice

Bertsch & Co., Cambridge City, Ind
Niagara Machine & Tool Works, Buffalo. N. Y
Robinson, Mfg. Co., J. M., Cincinnati, O

Brass and Copper

Hungerford, U. T., Brass & Copper Co., New York, N. Y
Plume & Atwood Mfg. Co., Chicago, Ill

Cans

Stuber & Kuck, Peoria, Ill

Carpenters' Tools

Griffin Mfg. Co., Erie, Pa
Lawson Mfg. Co., Chicago, Ill.
North Bros. Mfg. Co., Philadelphia. Pa
Pullman Mfg. Co., Rochester, N. Y

Carriage Forgings

Columbus Bolt Works, Columbus, O

Ceilings

Berger Mfg. Co., Canton, O
Burton. W. J. Co., Detroit, Mich
Canton Art Metal Co., Canton, O
Canton Mfg. Co., Canton, O
Eller Mfg. Co., Canton, O
Foster, Wm. & Sons, Springfield, Ill
Friedley-Voshardt Co., Chicago, Ill
Keighley Met. Ceiling Co., Pittsburg, Pa
Milwaukee Corrugating Co., Milwaukee, Wis.
Watson Co., James H., Bradley, Ill.
Wheeling Corrugating Co., Wheeling, W. Va

Cement—Plumbers

Obermayer Co., S., Cincinnati, O

Cement—Roofing

Auld & Conger Co., Cleveland, O
Conners, Wm. Paint Mfg. Co., Troy, N.Y

Chains—Jack and Safety

Hungerford, U. T. Brass & Copper Co., New York
Plume & Atwood Mfg. Co., Chicago, Ill

Chimney Tops

Iwan Bros., Streator, Ill

Clothes Dryers

Martcross Co., Chicago

Coil Springs

Pullman Mfg. Co., Rochester, N.Y

Conductor Hangers

Berger Bros. Co., Philadelphia, Pa

Conductor Pipe

Badger Steel Roofing & Corrugating Co., La Crosse, Wis
Bassett & Presley Co., Cleveland, O
Berger Mfg. Co., Canton, O
Canton Mfg. Co., Canton, O
Clark, Quien & Morse, Peoria, Ill
Delphos Mfg. Co. Delphos, Ohio
Eller Mfg. Co., Canton, O
Friedley & Voshardt, Chicago, Ill
La Crosse Steel Roof. Co., La Crosse, Wis
Reeves Mfg. Co., Canal Dover, O
Watson Co., James, Bradley, Ill

Conductor Pipe Machinery

Armor-Clad Mfg. Co., Canton, O.

Copper, Sheet, Plate and Roll

Bassett & Presley Co., Cleveland, O
Hussey & Co., R. G., Pittsburg, Pa

Copper and Brass

Hungerford, U. T.. Brass & Copper Co., New York, N. Y
Plume & Atwood Mfg. Co.. Chicago, Ill

Core Compound

Obermayer Co., S., Cincinnati, O

Corn Cribs

Denning Wire & Fence Co., Cedar Rapids, Ia

Cornices

Berger Mfg. Co., Canton, O
Canton Mfg. Co., Canton, O
Eller Mfg. Co., Canton, O
Watson Co., James, Bradley, Ill

Cornice Brakes

Bertsch & Co., Cambridge City, Ind
Dries & Krump Mfg. Co., Chicago, Ill
Niagara Machine & Tool Wks., Buffalo, N. Y.
Robinson, Mfg. Co., J. M., Cincinnati, O

Couplings—Solderless

Modern Improvements Mfg. Co. Brooklyn, N. Y.

Crimping Machines

Robinson, Mfg. Co., J. M., Cincinnati, O

Cutlery

Droescher, S. R., New York, N. Y
Simmons Hardware Co.. St. Louis. Mo
Smith & Hemingway Co., New York, N.Y

Cut Offs—Rain Water

LaCrosse Steel Roof. Co., La Crosse. Wis.
Milwaukee Corrugating Co., Milwaukee. Wis
Sullivan-Geiger Co., The Indianapolis, Ind.

Dampers

Taylor & Boggis Foundry Co. Cleveland, Ohio

Dies—Stamping, Cutting and Forming

Armor-Clad Mfg. Co., Canton, Ohio

Door Hangers

Richards Mfg. Co. Aurora, Ill.

Eaves Trough

Badger Steel Roofing & Corrugating Co. La Crosse, Wis
Bassett & Presley Co., Cleveland, O
Canton Mfg. Co., Canton, O
Cassens Mfg. Co., Edwardsville, Ill
Eller Mfg. Co., Canton, O
La-Crosse Steel Roof Co., La Crosse. Wis
Milwaukee Corrugating Co., Milwaukee, Wis
Reeves Mfg. Co.. Canal Dover, O
Watson Co., James, Bradley, Ill
Whitacre. J. E. Mfg. Co., Rockford, Ill
Wheeling Corrugating Co., Wheeling, W. Va

Elbows

Diener Mfg. Co., Geo. W. Chicago, Ill

Elbows—Conductor Pipe

Canton Mfg. Co., Canton, O
Dieckmann, Ferdinand. Cincinnati, O.
Eller Mfg. Co., Canton, O
Milwaukee Corrugating Co., Milwaukee, Wis.
Wheeling Corrugat'g Co., Wheeling, W. Va

Elevators

Kimball Bros. Co., Council Bluffs, Ia.

Enameled Ware

Star Enameling & Stamping Co., Pittsburgh, Pa

Fencing—Wire

Denning Wire & Fence Co.. Cedar Rapids, Ia
Pittsburgh Steel Co., Pittsburgh, Pa

Files

Carver File Wks, Philadelphia, Pa
Disston, Henry & Sons, Philadelphia, Pa

Forming Rolls

Bertsch & Co., Cambridge City, Ind
Niagara Machine & Tool Works, Buffalo, N. Y

Foundry Supplies

Obermayer, S. Co., Cincinnati, O
Stevens, F. B., Detroit, Mich

Furnace Cement

Connors Paint Mfg. Co., Wm., St. Louis, Mo

Furnaces—Hot Air

Bonnot Co., The Canton, Ohio
Boynton Furnace Co., Chicago, Ill
Detroit Heating & Lighting Co., Detroit, Mich
Garner Heating Co., Lansing, Mich
Green Fdy. & Furn. Wks., Des Moines, Ia
Haynes-Langenberg Mfg. Co., St. Louis, Mo
Henry & Scheible Co., Cleveland, O
Hess-Snyder Co., Massillon, Ohio
March-Brownback Stove Co., Pottstown, Pa
Meyer Furnace Co., Peoria, Ill
Miller, Wm. Range & Furnace Co., Cincinnati, Ohio
Monroe Fdy. & Furn. Co., Monroe, Mich
Mueller, L. J. Furn. Co., Milwaukee, Wis
Schill Bros. Co., Crestline, O
Schwab, R. J. & Sons Co., Milwaukee, Wis
Smith, Chas. & Co., Chicago, Ill
Standard Register Co., Cleveland, O.
Stove & Range Co of Pittsburgh, Pittsburgh, Pa
Youngstown Furn. & Supply Co., Youngstown, O

Furnaces—Soldering

Clayton & Lambert Mfg. Co., Detroit, Mich
Diener Mfg. Co., Geo. W., Chicago, Ill
Turner Brass Works, Sycamore, Ill

Furnaces—Liners

Burgess Soldering Furnace Co., Columbus, Ohio

Furnace Pipe and Fittings

Bassett & Presley Co.. Cleveland, O
Green Fdy. & Furn. Wks., Des Moines, Ia
Meyer & Bros. Co., F.. Peoria, Ill
Mueller, L. J. Furn. Co., Milwaukee, Wis

Furnace Rings

Walworth Run Fdy. Co., Cleveland, O

Gas Stoves

Stove & Range Co. of Pittsburgh, Pittsburgh, Pa

Generators—Acetylene

Ideal Epworth Acetylene Co., Waterloo, Iowa, & Johnstown, Penn

Grain Grader

Paxton & Gallagher Co., Omaha, Neb

Hangers—Door

Safety Door Hanger Co., Ashland, O

Hangers—Garment

Pullman Mfg. Co., Rochester, N Y

Hardware Jobbers

Clark, Quien & Morse, Peoria, Ill
Paxton & Gallagher Co., Omaha, Neb

Hardware Specialties

Paxton & Gallagher Co., Omaha, Neb
Pullman Mfg. Co., Rochester, N. Y
Simmons Hdw. Co., St. Louis, Mo
Schollhorn Co., Wm., New Haven, Conn
Smith & Hemenway Co.. New York, N. Y
Taylor & Boggis Fdy. Co., Cleveland, O

Heating

Kellogg-Mackay-Cameron Co., Chicago, Ill

Hinges

Griffin Mfg. Co., Erie, Pa
Lawson Mfg. Co., Chicago, Ill

Hollow Ware

Avery Stamping Co., Cleveland O
Sperry, D. R. & Co., Batavia, Ill

Hones

Droescher, S. R., New York, N. Y

Horse Nails

Standard Horse Nail Co., New Brighton, Penna

Hotels

Lenox Hotel Buffalo, N. Y.

Ice Cream Freezers

North Bros. Mfg. Co., Philadelphia, Pa
Sturges & Burn Mfg. Co., Chicago, Ill

Insurance

Hardware Dealers Mutual Fire Ins. Co. of Wis., Berlin, Wis
Iowa Hdw. Mutual Ins. Assn., Mason City, Iowa

Kitchen Utensils

Avery Stamping Co. Cleveland, O

Ladders—Shelf

Calander, John St. Paul, Minn

Lanterns

Berger Mfg. Co., Canton, O

Lawn Fence

Denning Wire & Fence Co., Cedar Rapids, Ia
Enterprise Foundry & Fence Co., Indianapolis, Ind

Lawn Mowers

Coldwell, Lawn Mower Co., Chicago, Ill., Newburg, N. Y
Philadelphia Lawn Mower Co., Philadelphia, Pa

Levels

Baker-McMillen Co., Akron, O

Lighting

Ideal Epworth Acetylene Co. Waterloo, Iowa and Johnstown, Penna

Lighting Systems

Detroit Heating & Lighting Co., Detroit, Mich

Lightning Rod

Electra Lightning Rod Co. Cresco, Ia
Foy, Edw. A. & Co., Cincinnati, O
Maher & Son Lightning Rod Co., Preston, Ia

Mail Boxes

Slick-Williams Co., Indianapolis, Ind

Meat Choppers

Enterprise Mfg. Co. of Pa., Philadelphia, Pa

Metal—Perforated

Harrington & King Perforating Co., Chicago, Ill

Metal Shingles

Burton, W. J. Co., Detroit, Mich
Nat'l Sheet Metal Roofing Co., Jersey City, N. J

Miters

Whitacre, J. R. Mfg. Co., Rockford, Ill

Nails and Tacks—Copper

Hungerford, U. T., Brass & Copper Co., New York, N. Y
Hussey & Co., C. G., Pittsburg, Pa

Nuts

Columbus Bolt Works, Columbus, O

Paints and Paint Specialties

Connors, Wm., Paint Mfg. Co., Troy, N. Y
Dixon, Jos. Crucible Co., Jersey City, N.J

Pencils

Dixon, Jos. Crucible Co., Jersey City N.J

Perforated Metal

Harrington & King Perforating Co., Chicago, Ill

Pipe—Furnace

Meyer & Bro. Co., F. Peoria, Ill

Pipe—Stove

Reeves Mfg. Co., Canal Dover, O

Pipe—Wall

Michigan Safety Furnace Pipe Co., The Detroit, Mich

Pliers

Schollhorn Co., Wm., New Haven, Conn

Plungers

Berger Bros. Co., Philadelphia, Pa

Polish—Stove

Black Silk Stove Polish Works Sterling, Ill.

Pumps

Hess-Snyder Co., Massillon, O

Punches

Armstrong-Blum Mfg. Co., Chicago, Ill
Bertsch & Co., Cambridge City, Ind
Niagara Machine & Tool Works., Buffalo, N.Y
Robinson, Mfg. Co., J. M., Cincinnati, O
Schollhorn Co., Wm., New Haven, Conn

Putty—Stove

Connors, Wm. Paint Mfg. Co., Troy, N.Y

Radiators

Kellogg-Mackay-Cameron Co., Chicago, Ill

Rasps

Disston, Henry & Sons., Philadelphia, Pa
Carver File Wks., Philadelphia, Pa

Razors

Droescher, S. R., New York, N. Y
Smith & Hemenway Co., New York, N.Y

Registers

Henry & Scheible Co., Cleveland, O
Meyer Bros. Co., F. Peoria, Ill
Mueller, L. J., Furn.Co., Milwaukee, Wis
Schwab & Sons Co., Milwaukee, Wis
Standard Register Co., Cleveland, O

Rivets

Columbus Bolt Works, Columbus, O
Hungerford, U.T., Brass & Copper Co., New York, N. Y

Roasters

Wheeling Corrugating Co., Wheeling, W. Va

Roofers' Supplies

Auld & Conger Co., Cleveland, O

Roofing and Siding

Bassett & Pressley Co., Cleveland, O

Roofing—Iron and Steel

American Sheet & Tin Plate Co. Pittsburgh, Pa
Berger Mfg. Co., Canton, O
Burton, W. J. Co., Detroit, Mich
Canton Art Metal Co., Canton, O
Canton Mfg. Co., Canton, O
Eller Mfg. Co., Canton, O
Follansbee Bros. Co., Pittsburgh, Pa
Friedley & Voshardt, Chicago, Ill
La Crosse Steel Roof. Co., La Crosse, Wis
Nat'l Sheet Metal Roof. Co., Jersey City, N. J
Reeves Mfg. Co., Canal Dover, O
Wheeling Corrugating Co., Wheeling, W. Va

Roofing Cement

Auld & Conger Co., Cleveland, O
Connors Paint Co., The Wm., Troy, N.Y

Roof Paint

Dixon, Jos. Crucible Co., Jersey City, N.J

Rules

Lufkin Rule Co., Saginaw, Mich

Safety Thimbles

Paul, Richard, Cleveland, Ohio

Sash Balances

Pullman Mfg. Co., Rochester, N.Y

Saw Sets and Saws

Disston, Henry & Sons, Philadelphia, Pa
Smith & Hemenway Co., New York, N.Y

Screens—Perforated Metal

Harrington & King Perforating Co., Chicago, Ill

Screen Door Checks

Pullman Mfg. Co., Rochester, N. Y

Screws

Columbus Bolt Works. Columbus, O

Screw Drivers

North Bros. Mfg. Co., Philadelphia, Pa

Seamless Tubing—Brass & Copper

Hungerford, U. T., Brass & Copper Co., New York, N. Y

Seed Cleaners

Paxton & Gallagher, Omaha, Neb

Shears

Bertsch & Co., Cambridge City, Ind
Niagara Machine & Tool Works, Buffalo, N. Y
Robinson, Mfg. Co., J. M., Cincinnati, O
Simmons Hdw. Co., St. Louis, Mo

Sheet Metal Specialties

Armor-Clad Mfg. Co., Canton, Ohio

Sheets—Black and Galvanized

American Sheet & Tin Plate Co. Pittsburgh, Pa
Berger Mfg. Co., Canton, O
Tanner & Co. Indianapolis, Ind
Wheeling Corrugat'g Co., Wheeling, W. Va

Sheets—Planished

American Sheet & Tin Plate Co., Pittsburgh, Pa.
Follansbee Bros., Pittsburg, Pa
Ward-Dickey Steel Co., Indiana Harbor, Ind

Sheets—Steel

American Sheet & Tin Plate Co., Pittsburgh, Pa.
American Steel & Wire Co., Chicago, Ill
Follansbee Bros. Co., Pittsburgh, Pa
Tanner & Co. Indianapolis, Ind

Shelf Boxes

Green & Co., A. H., New York, N. Y

Shovels

Avery Stamping Co., Cleveland, O

Show Cases

Michigan Show Case Co., Detroit, Mich

Siding

Foster, Wm. & Sons, Springfield, Ill
Milwaukee Corrugating Co., Milwaukee, Wis

Sifters

Stuber & Kuck, Peoria, Il

Skylights

Badger Steel Roofing & Corrugating Co., La Crosse, Wis
Berger Mfg. Co., Canton, O
Eller Mfg. Co. Canton, O

Skylight Gearing

Weiss, H. Co., New York, N.Y

Slate Roofing

Auld & Conger Co., Cleveland, O

Slating Nails

Hussey & Co., C. G., Pittsburg, Pa

Solderene

Solderene Co., The Boston, Mass

Squares, Machinists'

Disston, Henry & Sons, Philadelphia, Pa

Stampings—Sheet Metal

Avery Stamping Co., Cleveland, O

Steel

American Steel & Wire Co., Chicago, Ill

Stoves and Ranges

Culter & Proctor Stove Co., Peoria, Ill
Miller, Wm. Range & Furnace Co., Cincinnati, Ohio
Monitor Stove & Range Co., Cincinnati, O
Schill Bros. Co., Crestline, Ohio
Stove & Range Co. of Pittsburgh, Pittsburgh, Pa.
Van John Range Co., Cincinnati, O

Stove Cement

Dixon, Jos. Crucible Co., Jersey City, N.J

Stoves—Gas

Stove & Range Co. of Pittsburgh Pittsburgh, Pa

Stove Mats

Stuber & Kuck, Peoria, Ill

Stove Patterns

Cleveland Castings Pattern Co., Cleveland, O
Cope Pattern, Geo. W. Wks., Detroit, Mich
Quincy Pattern Co., Quincy, Ill
Vedder Pattern Works, Troy, N Y
Weller Pattern Co. Quincy, Ill

Stove Pipe

Hemp & Co., St. Louis, Mo

Stove Pipe Thimbles

Stuber & Kuck, Peoria, Ill

Stove Polish

Black Silk Stove Polish Works, Sterling, Ill

Stove Putty

Connors Paint Mfg. Co., Wm., St. Louis, Mo

Stove Repairs

American Stove Repair Works, St. Paul, Minn
Brauer, A. G., Supply Co., St. Louis, Mo

Stove Trimmings

Cleveland Nickel Works, Cleveland, O

Sugar Kettles

Sperry, D. R. Co., Batavia,

Supplies—Foundry

Obermayer Co., S., Cincinnati, O
Stevens, F. B., Detroit, Mich

Supplies—Stove Dealers'

Brauer, A. G., Supply Co., St. Louis, Mo

Tacks

Hungerford, U. T., Brass & Copper Wks New York, N. Y

Tapes

Lufkin Rule Co., Saginaw, Mich

Technologist

Hooper, C. N. Dubuque, Iowa

Thermometers—Oven

Evans Stamping & Plating Co., Taunton, Mass

Tin—Perforated

Harrington & King Perforating Co., Chicago, Il

Tinners' Tools

Auld & Conger Co., Cleveland, O
Berger Bros. Co., Philadelphia, Pa
Lufkin Rule Co., Saginaw, Mich
Niagara Machine & Tool Works, Buffalo, N. Y
Smith & Hemenway Co., New York N.Y

Tinplate

American Sheet & Tin Plate Co., Pittsburg, Pa
Bassett & Pressley Cleveland, O
Canton Art Metal Co., Canton, O
Eller Mfg. Co. Canton O
Follansbee Bros. Co., Pittsburgh, Pa
Merchant & Evans Co., Philadelphia, Pa
Wheeling Corrugating Co., Wheeling, W. Va

Tinware Trimmings

Berger Bros. Co., Philadelphia, Pa

Tools, Etc.

North Bros. Mfg. Co., Philadelphia, Pa
Rock Island Tool Co., Rock Island, Ill
Schollhorn Co., Wm., New Haven, Conn
Simmons Hardware Co., St. Louis, Mo

Tools—See Carpenters' Tools

Tools—Linemen's

Smith & Hemenway, New York, N.Y

Trowels

Avery Stamping Co., Cleveland, O
Disston, H. & Sons, Inc., Philadelphia, Pa
Griffin Mfg. Co., Erie, Pa

Tubing—Brass and Copper

Hungerford, U. T., Brass & Copper Co. New York, N. Y
Plume & Atwood Mfg. Co., Chicago, Ill

Tubing—Heavy Tin

Dieckmann, Ferdinand, Cincinnati, O

Ventilators

Badger Steel Roofing & Corrugat'ng Co., La Crosse, Wis
Berger Mfg. Co., Canton, Ohio
Canton Mfg. Co., Canton, O
Eller Mfg. Co., Canton, O
Friedley & Voshardt, Chicago Ill
Globe Ventilator Co., Troy, N.Y
Merchant & Evans Co., Philadelphia, Pa
Pullman Mfg. Co., Rochester, N. Y
Uno Ventilator Co., Lynn, Mass

Vises—Automatic Swivel

Rock Island Tool Co., Rock Island, Ill

Wall Register—Fittings

Meyer & Bro., Co., F. Peoria, Ill

Washers

Columbus Bolt Works., Columbus, O

Washing Machines

Brammer, H. F., Mfg. Co., Davenport, Ia
Paxton & Gallagher, Omaha, Neb.
Rotary Washing Machine Co., St. Louis, Mo
White Lily Mfg. Co., Davenport, Ia & Toledo, O

Weather Vanes—Ornamental

Foy, Edw. A. & Co., Cincinnati, O

Wire

American Steel & Wire Co., Chicago, Ill

Wire Goods

Denning Wire & Fence Co., Cedar Rapids,
Pittsburgh Steel Co., Pittsburgh, Pa

Wants and Sales

For Paid Yearly subscribers THE AMERICAN ARTISAN will insert under this head advertisements of six lines WITHOUT CHARGE for employers wishing to secure employes, persons seeking situations, parties desiring to purchase a business, businesses for sale, partners wanted, to exchange, etc. Those who respond to these announcements will please mention that they "READ THE ADVERTISEMENT IN THE AMERICAN ARTISAN."

BUSINESS CHANCES.

PATENTS HUBERT E. PECK 623 F. Street, N. W., Washington, D. C., Consulting Expert in Patent Causes. U. S. and Foreign Patents. Send for leaflet on "Rejected Patent Applications."

For Sale—Stock of hardware, implements and furniture in town of 2,500 inhabitants. Doing good business. No trade. Address Box 71, Chadron, Nebraska. 17-2t

Partner Wanted—In hardware business, 1907 sales over $28,000 on $4,000 stock; $3,000 required. Best of references furnished and required. Address M-47, care of THE AMERICAN ARTISAN, 355 Dearborn St., Chicago. 17-2t

200 acres highly improved Indiana farm; rich level land; will trade for stock hardware or hardware and building not over $14,000. Address Wilson's Farm Agency, Indianapolis, Indiana. 17-1t

For Sale—Well established hardware business with building in a thriving city of 5,000. Located in a fine farming community. A rare opportunity to get a clean stock of goods and a good location. Wish to retire on account of age. Address Lock Box 2, Berlin, Wisconsn. 17-3t

For Sale—Stock of hardware. Clean and up-to-date. Invoice about $4,500. Situated within county seat of southern Wisconsin. Location good and a fine rich country about it. Business good .The best reasons for offering this stock for sale. Look it up. Address M-45, care of THE AMERICAN ARTISAN, 355 Dearborn St., Chicago. 16-3t

Wanted—A side line on commision for southern Minnesota and northern Iowa. Address M-44, care of THE AMERICAN ARTISAN, 355 Dearborn St., Chicago. 16-3t

For Sale—A good furnace roofing and tinning business. Good lot of tools, clean stock, etc. In a town of 25,000 in central Ohio. Poor health reason for selling. Address M-38, care of THE AMERICAN ARTISAN, 355 Dearborn St., Chicago. 15-3t

For Sale—Novelty Whip Holders, patented Feb. 5, 1907. Will sell or trade for hardware stock. For particulars address Lock Box 37, Gilman, Illinois. 15-3t

For Sale—A clean up-to-date stock of hardware, plumbing, tinshop, electric supplies. Good location in the best farming country in northern Indiana. Reason for selling, failing health. Not afraid to show amount of business. Address M-40, care of THE AMERICAN ARTISAN, 355 Dearborn St., Chicago. 15-3t

For Sale—Tinshop with a first-class set of tools, including one 8-foot Robinson cornice brake. Good location. Doing a fair business. Only two shops in town of 5,500. Will take cash or equivalent. Address M 34, care of THE AMERICAN ARTISAN, 355 Dearborn St., Chicago. 14-ufn

For Sale (Cash)—A well assorted stock of hardware and steam fittings. Will invoice about $6,000. Also two story brick store, built for hardware, with dwelling rooms on second story. This is a strictly cash business and will bear investigation. Address A. W. L. Hardware, Mt. Jackson, Virginia. 5-30

TINNERS' TOOLS.

For Sale—One eight foot Robinson cornice brake. Address H. E. Rebmann, 2078 West Lake St., Chicago. 17-2t

Wanted—To lease or rent a set of tinner's tools and machines in good condition, with privilege of buying at stated figure. Address M-50, care of THE AMERICAN ARTISAN, 355 Dearborn St., Chicago. 17-1t

For Sale—One 8 foot Robinson cornice brake for $125. Apply to H. E. Rebmann, 2078 West Lake St., Chicago. 17-2t

For Sale — One set tinner's tools. Will sell very cheap. Tools not new but in good condition. Includes 30 inch P. S. & W. squaring shears. Write for list of tools and prices. Address Dixon & Conway, Elroy, Wisconsin. 16-2t

Wanted to Buy—One good second-hand cornice brake. Give full description and price. Address Pioneer Hardware Co., Watertown, South Dakota. 15-3t

For Sale—One 20-inch tin folder, one 30-inch Wright's sheet iron folder, one R. & W. Landers pat. circular shears. Will sell separately or combined to suit buyer, and will sell cheap. Adress Casselton Hardware Co., Casselton, N. D. 15-3t

HELP WANTED.

Wanted—A first-class tinner and furnace man. One who can figure from plans and take charge of tinshop. Must be married, sober and reliable. Steady work the year around; must furnish references. Address M. Reinhardt's Sons, Lincoln, Illinois. 17-3t

Wanted—A good reliable combination tinner and plumber. No boozer. With $3,000 cash, as a partner in a good up-to-date general hardware and plumbing business in a growing town situated in northern Iowa. Address M-46, care of THE AMERICAN ARTISAN, 355 Dearborn St., Chicago. 17-3t

Wanted—At once, a good young tinner as second-hand man in general jobbing shop doing roofing, spouting, plumbing, heating, creamery work, etc. Single man preferred. State wages and experience. Address Lidral & Andre, Algoma, Wisconsin. 17-3t

Wanted—A plumber or plumber and tinner, at once. Steady job the year around. Write to-day. Address W. W. Wheeler & Son, Harlan, Iowa. 17-3t

Wanted—Young man who wishes to learn the plumbing and heating trade in an Illinois town near Chicago. Address M-43, care THE AMERICAN ARTISAN, 355 Dearborn St., Chicago. 16-2t

Wanted at Once—A first-class tinner and furnace man. Will pay $3.00 the year around. Address Peterson & Adams, Devils Lake, N. D. 16-3t

Wanted—Salesman for water power washing machines, to travel Illinois, Iowa, Missouri and Wisconsin. Want one acquainted with the hardware trade. State age, experience and salary expected. Address M-42, care of THE AMERICAN ARTISAN, 355 Dearborn St., Chicago. 16-2t

Wanted—A good tinner for in and outside work. German; married man preferred. One who is sober and wants a good job all year round. To such a man I can give steady employment. My shop is second to none for country town. Caledonia is a thriving town of 1,500 inhabitants and is the county seat of Houston county. Address H. C. Seuffert, Caledonia, Minnesota. 16-3t

Wanted—At once, a good all around tinner and furnace man. Steady job. State wages per week. Address F. N. Hollister, Sabetha, Kansas. 16-3t

Wanted—Young man to learn tinner and plumber's trade. Also to clerk in store part of time in a town of 1,000. Address M-37, care of THE AMERICAN ARTISAN, 355 Dearborn St., Chcago. 15-3t

Wanted—Tinner and clerk in small country town. Steady work by the year. Address Mason Hardware Company, Alex, Oklahoma.

SITUATIONS WANTED.

Situation Wanted—By a young man of three years' experience at the tinner's trade. No bad habits. Nothing but a steady job considered. Small town preferred. Address M-49, care of THE AMERICAN ARTISAN, 355 Dearborn St., Chicago. 17-3t

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Situation Wanted—By a first-class tinner and furnace workman who is up-to-date, sober, steady and reliable. A good job workman and all around mechanic. Nothing but a steady position in a country town in Illinois. State wages. Address Tinner, Box 317, Monticello, Indiana. 16-3t

Position Wanted—By a first-class tinner and furnace man. Skilled in work. Strictly sober and reliable. Address M-41, care of THE AMERICAN ARTISAN, 355 Dearborn St., Chicago. 15-3t

Situation Wanted — Young man with over twenty years' experience in the stove and range business and well up in same, is desirous of representing some good line on the road. Southern territory preferred. Address Box 313, Valdosta, Georgia. 15-2t

Situation Wanted—By experienced tinsmith and sheet iron worker. Married. Steady job preferred. Address J. Kretshmer, 6412 Ellis Ave., Chicago. 15-2t

SPECIAL NOTICES.

Situation Wanted

As traveling salesman. Would prefer Southern Iowa or Northern Missouri Extensive acquaintance with trade. Address K-31, care THE AMERICAN ARTISAN, 355 Dearborn St., Chicago. 9-ufn

FOR SALE

A fine set of Oak Stove Patterns, wood and iron. Almost new. Complete with fallow boards, 14, 16, 18 and 20 inches. Price low for quick sale. Address, BARSTOW STOVE CO., Providence, Rhode Island. 13-4t

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Tin and furnace shop, first-class tools as good as new, 1 horse, 2 wagons, 1 O. K. Steel Brake (new). Will invoice $1,200. Reasons for selling, going out of city. Will sell for cash only. Address Lake View Tin & Furnace Co., 1871 E. 119th St. S. E., Cleveland, Ohio. 9-ufn

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If you have a large lump of hardware Merchandise, that you want disposed of *quickly* at a *sacrifice*, address "Quick Sales," care THE AMERICAN ARTISAN and get our proposition. It will be optional with you as to whether you are known or not known in the sale.

SOLDERENE mends leaky pans, broken handles, Porcelain ware, etc., etc. Solderene and a candle are all you need to make a permanent repair. Don't overlook this splendid opportunity to add another ready seller to your stock. Write us a postal to-day for terms to the trade. **It retails for 10 cents.**

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Fine paying business, clean stock, splendid buildings, best location, desirable competition, prosperous community, good schools and churches; superior people. Write Box 142, Starkweather, North Dakota. 17-1t

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Set of tinner's tools (Stow's make) including square shears, setting down, turning, burring, crimper, folders, grooving and pipe former machines, punches, groovers and stakes. Some have not been used, the rest long enough to install thirty furnaces: Write for list and price. Address Symms-Powers Co., Sioux Falls, South Dakota. 17-2t

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First-class experienced Steel Range rivetter and body maker. Address The Lattimer-Williams Mfg. Co., Columbus, O. 17-1t

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With experience operating power cornice press, one familiar with fireproof metal window frames. Steady employment. State experience and wages expected. Address F-10, care of THE AMERICAN ARTISAN, 355 Dearborn Street, Chicago. 17-ufn

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An established business for sale, consisting of hardware, stoves, ranges, house furnishing goods, furnaces and mantels. In a manufacturing city of 60,000 near to both coal and oil fields. Stock invoices about $14,000 but can be reduced. Splendid location and favorable lease on building. Address K-50, care of THE AMERICAN ARTISAN, 355 Dearborn Street, Chicago. 17-2t

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SHOP RIGHT FOR USEFUL HOUSEHOLD ARTICLE USED DAILY IN EVERY KITCHEN. RETAILS FOR 25 CENTS. MADE OF SHEET METAL WITH ORDINARY TINNERS' TOOLS. ADDRESS HENRY GIESSEL

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Shop Rights to manufacture in Illinois an accepted fire proof metal window frame and sash. Enclose drawing and state price. Address "Illinois", care of THE AMERICAN ARTISAN, 355 Dearborn Street, Chicago. 17-ufn

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Sterling, Ill., U. S. A. Is The Home

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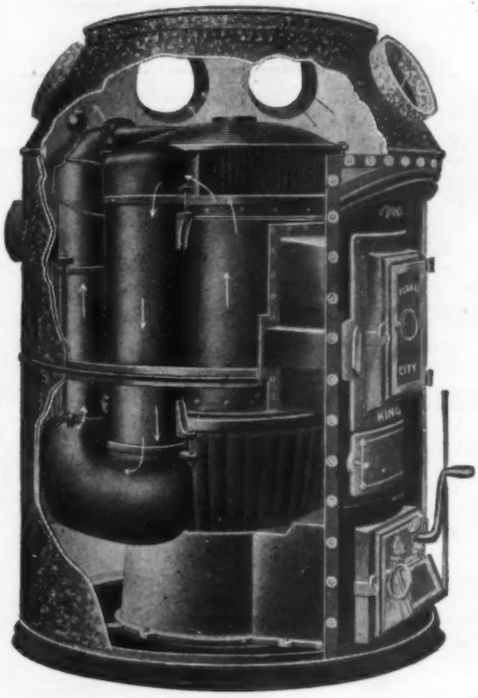

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IF YOU WILL

Make a practical demonstration of my

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YOU WILL find their use is in the interests of economy, and that means SAVE MONEY. They are the cheapest in the end because a given quantity will do more work than any other on the market.

I manufacture "Everything for the Foundry."

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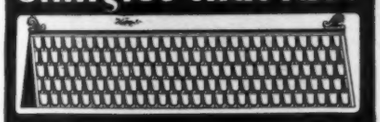

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Light, smooth, full measure and guaranteed perfect. Made from original patterns. Metal, the right kind in the right place. Ask your jobber for them or write us.

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Russia finish, pat. lock
STOVE PIPE

It is made of a very high grade of uniform color Blue Polished Steel, and is coated to prevent rusting. Made in all sizes.

Packed twenty-five and fifty joints to crate. For sale by the jobbing Hardware Trade throughout the United States.

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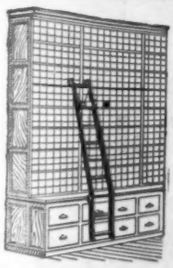
In the event your jobber does not handle this pipe send your inquiries to us.



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Are made to fit all kinds of high shelvings, and are guaranteed to be satisfactory in every respect.

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The heads are extra heavy cast iron, connected by spiral steel springs whose tension adjusts them to any thickness of floor or partition.

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The Thimble is a perfect safeguard against fire from overheated stove or furnace pipes which pass through floors or partitions.

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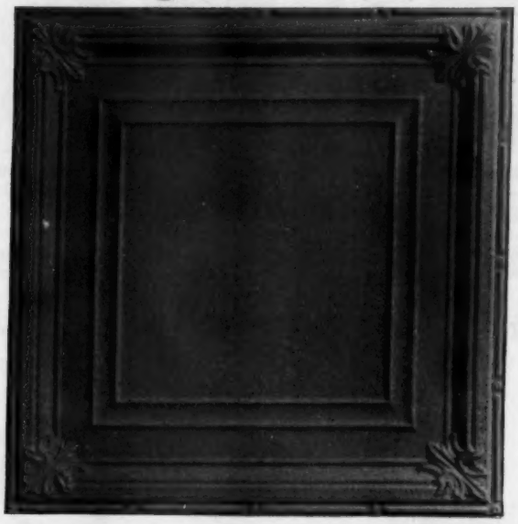
New and Special Designs

Our Metal Ceilings cost no more than others. They wear better and last longer.



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BY cutting the beads in the dies after casting a square, an accurate plate is assured which means perfect joints and a saving in the cost of erection. If you are looking for the best in material and workmanship,

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By using Conductor Pipe, Eaves Trough and Ridge Roll

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You Get Away from Cheap Competition

THE "DOVER" HANGER

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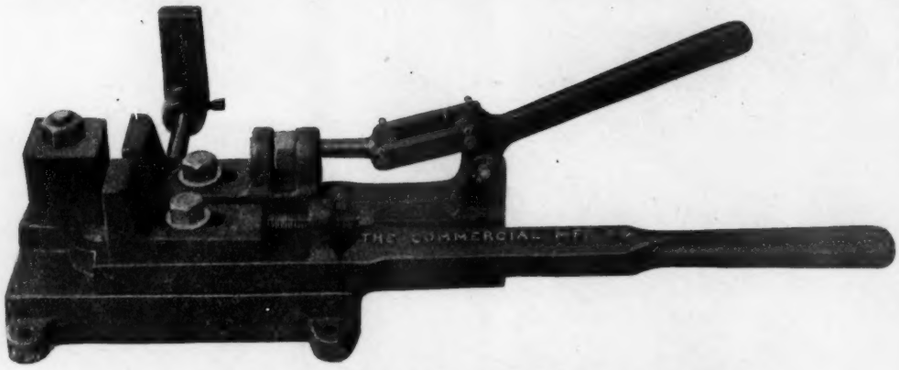
MANUFACTURERS OF

ALL STYLES OF SHEET METAL ROOFING AND SIDING, DOVER NESTED STOVE PIPE, AND ONE PIECE STOVE PIPE ELBOWS

PROMPT AND COURTEOUS REPLY TO ALL INQUIRIES

YOU-NEED-"IT"

THE "AMERICAN" IRON AND STEEL BENDING MACHINE



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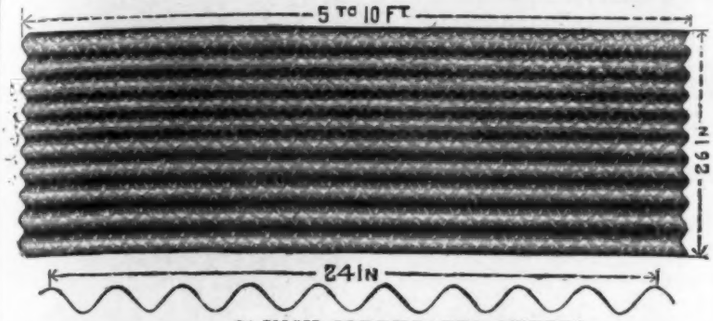

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Galvanized or Painted

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One pound required for 2 to 3 squares Roofing.

Lead Washers make an absolutely water-tight joint under the Nail head.

Prevents rusting and loosening around the Nail.

The use of Lead Washers add much to the life of Metal Roofing.

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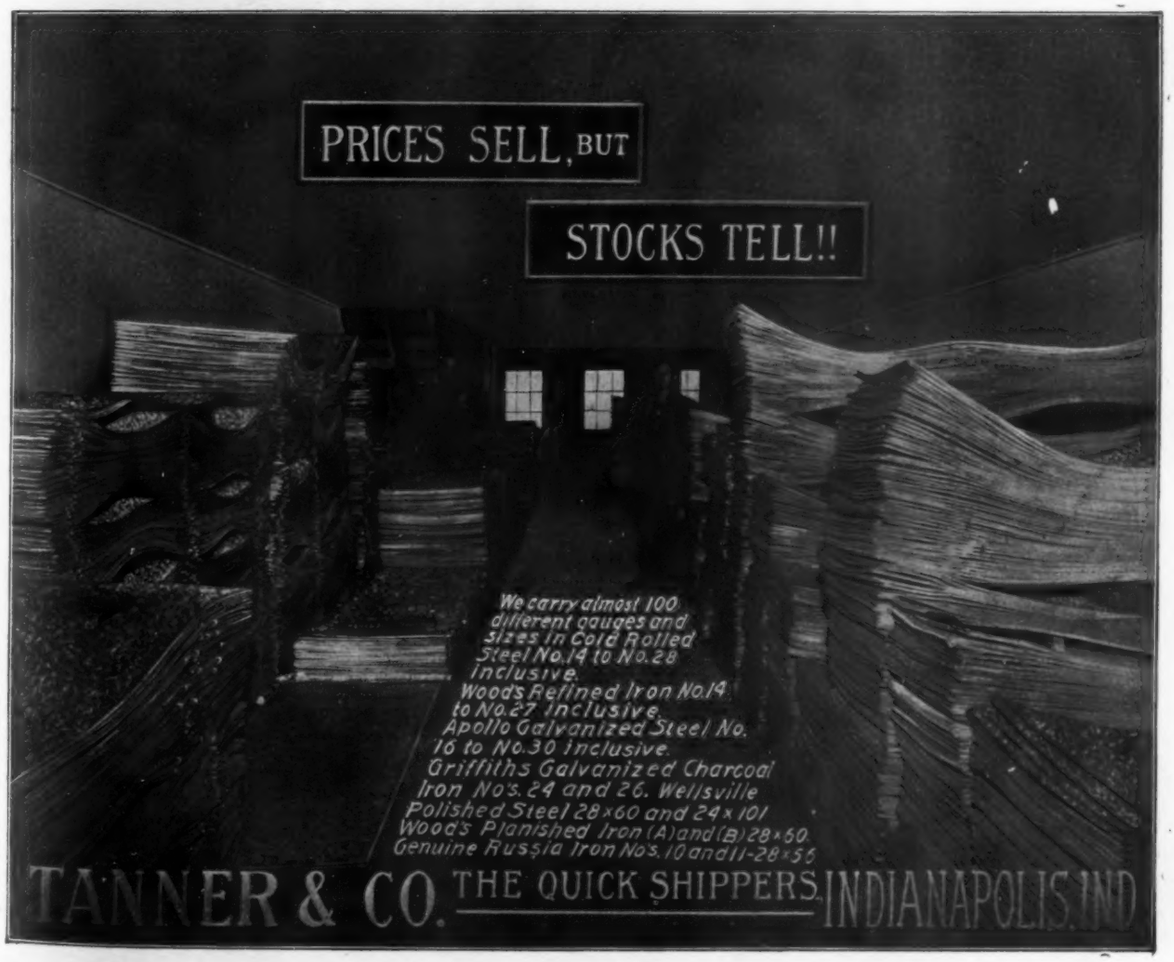

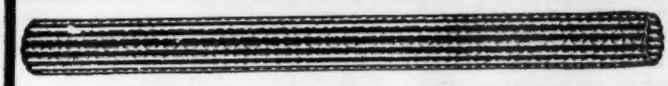

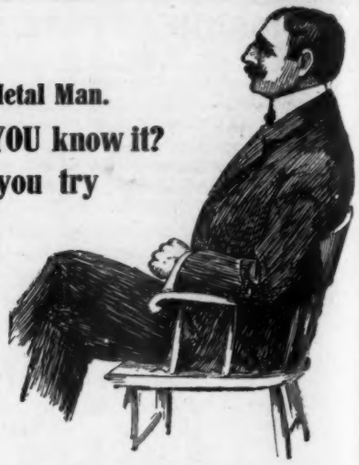

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We know we can serve you right, but do YOU know it? And how're you going to find out unless you try us and see for yourself.

We have the goods.
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We can ship quick.
WE CAN MAKE THE PRICE.

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Have no Cross Seams. Made of Galvanized Iron in ten-foot lengths.

Will not burst when full of ice.

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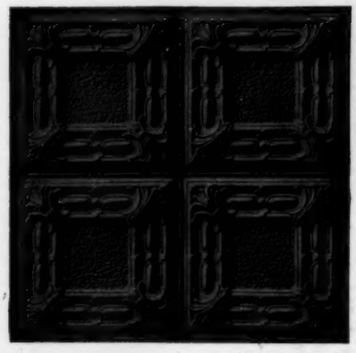

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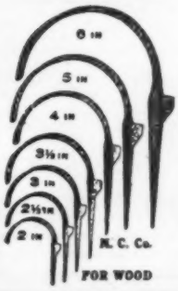

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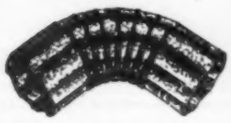

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This brand carries with it the reputation of the manufacturer. No tin has been subjected to greater test of quality. This same quality is **retained** by us, and is made now the same as when the reputation of the brand was established years ago.

Palm oil coated. Sheets resquared and rigidly assorted.

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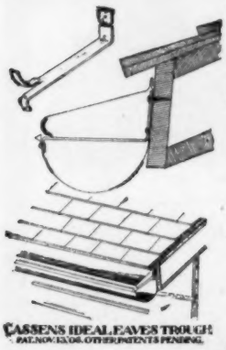

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Traveling Salesmen wanted to carry the IDEAL as a side line.

Write for descriptive matter.

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NOTHING BETTER PRICES LOWEST WRITE TODAY

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HELL Cannot be hotter than our No. 10

Noiseless, No Odor, No Smoke.
More Heat with Less Fuel.
Greatest Range of Heating.
3 to 12 lb.
Coppers Indoors or on a Roof.

Order of your Jobber, or we will ship direct for $6.50, on 30 days approval.

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Always Ready—No Smoke—No Odor—No Noise—Unexcelled—Unequaled—Unrivaled—Safe—Sure—Durable.

Galvanized Iron, Brass or Copper Reservoir
Equipped with Cylindrical Slotted Burner

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We manufacture Pure Copper Wire Cables, made of 28, 30 and 49 Wires, with complete outfit of trimmings.

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No. 1 Fire Pot $6.00 Net.

Jobbers supply at factory price, or we will ship direct, if cash accompanies the order.

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LET US PROVE IT

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This Treadle Punch is designed especially for Sheet Iron Shops. It is built with either foot treadle or overhead hand lever, or both combined, as desired. We build a complete line of Shears, Punches and Forming Rolls, all sizes for hand or power.

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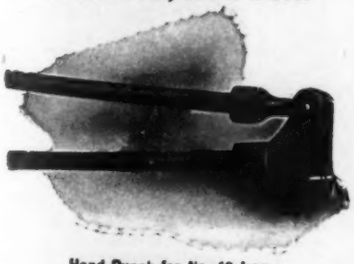

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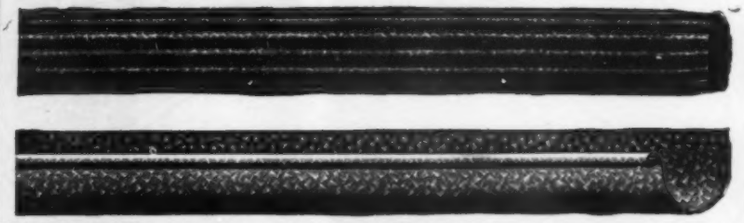

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Burritt's Roofing Double Seamers

Tinners' and Roofers' Tools, Shears, Punches, Presses and Dies, Can-Making Machinery

MADE BY

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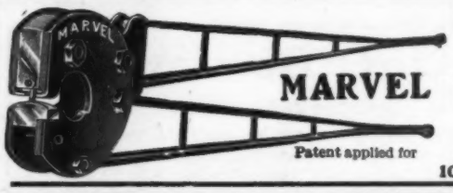

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Patent applied for

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Made entirely of STEEL

Capacity ¾ inch hole in ¾ inch.
Length 38 inches, weight 16 lbs.
Write for circular and price of this and other Marvel Tools.

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SHEET BRASS, All Tempers. BRASS and BRONZE DRILL RODS.
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BRAZED and SEEMLESS TUBING.

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Copper Bottoms,
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Tinned Copper,
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Special Shapes Sheared or Stamped
Slating Nails.

PROMPT SHIPMENT FROM STOCK.

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Specify With

GUARANTEE *F. Dieckmann* Stamped in the Metal.

CHARCOAL IRON

Makers of the Elbows which can be erected without Refitting and Solder, save Labor and Material.

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A sure cure for smoky chimneys, the best for ventilation.

4" to 30"

Send for catalogue

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It Is Acknowledged

PRICE	
3½-in.	$ 50
4 "	60
4½ "	65
5 "	75
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By the best workmen to be the only way to close the end of an eave trough as corrugations ARE PROOF against frost.

Order a Set of Tools TODAY from any Jobber or Tinners' Supply House.

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Don't Let the Other Fellow "Rob" You

You Will Profit by Sending Us Your Orders
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Eaves Trough — Cutoffs
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Modern. High Grade. Fireproof.

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Per
100 Feet of 3 Inch

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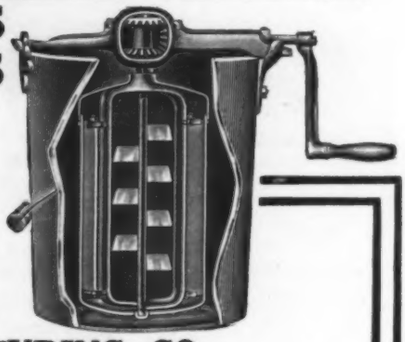
THE AMERICAN ARTISAN Keeps You Posted.

MAKES MONEY FOR YOU—SAVES MONEY FOR YOUR CUSTOMERS



The Jack Frost Freezer **makes** money for you because you can sell more than any other make, and it **saves** money for your customers because it saves Ice, Time, Work—and lasts longest.

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is multiple motion—every turn of the crank helps freeze the cream. All gearing self-lubricating and covered so no oil gets in can.

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Iwans' Voleano Revolving Chimney Top

Sizes 6 to 12 Inches.

Sold by Jobbers of Hardware and Tinners' Supplies.

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You need it for some of your customers' chimneys.

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Mfrs. of Hardware Specialties

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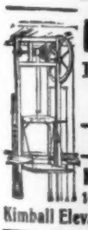

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"LIGHTNING"

THAT EXCEL IN
- Easy Running
- Quick Freezing
- Economy
- Convenience
- Practical Results

THAT ARE
- Well Advertised
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THE "BEST MADE" because in practical use, they are convenient, compact in size, use smallest amount of ice and salt, run easily, freeze quickly, produce smoothly frozen creams or desserts with little bother and less work. We make also

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THE ORIGINAL SHRP-SHAVR

25 Cent Safety Razor

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It's All in Our Blades

Our blades can be honed and stropped indefinitely.

$2.00 per doz. delivered through any jobber in the U. S. A.

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are made in every conceivable variety, to suit every purse and purpose, but all of the same superior quality.

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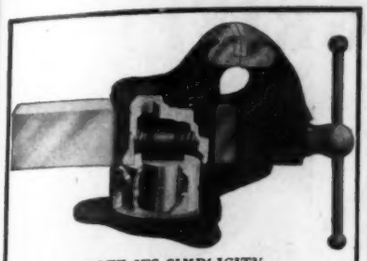

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Automatic Swivel Vise

Locks Automatically by Tightening the Jaws

Saves 20 per cent Vise Labor

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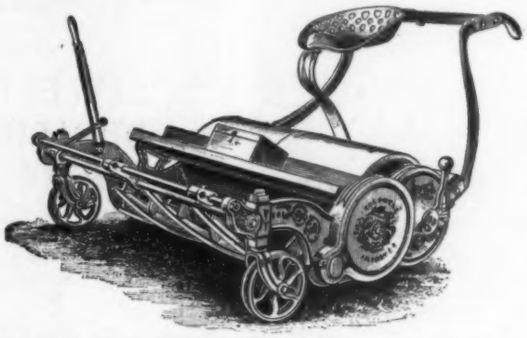
75% of the Horse Mowers in use in this country are of our make. Their popularity is due to their efficiency, durability and lightness of draft. All sizes from 25 to 40 inches in width, 4 or 6 blade reels.



Adopted by the United States Government, the park system of New York, Chicago, St. Louis and all the large cities. It is in use in more public places than any other Horse Mower made.

COLDWELL LAWN MOWER COMPANY

Makers of Good Mowers

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A NEW PATTERN STANDARD LEVEL—Two Level Glasses, One Plumb Glass

Side glasses may be reversed at any time; all easily adjustable; all glasses in plain view from both sides; brass trimmings on both sides.

No. 31—Solid Cherry.
No. 32—Three-piece Cherry.
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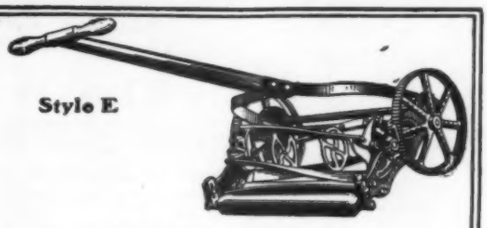

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The Big 4 Combination in Lawn Mowers

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The Genuine PHILADELPHIA Lawn Mowers

Unsurpassed Why Perfection

Unequalled Why Simple

Unrivalled Why Durable

all have the words Philadelphia Lawn Mower Co. cast on the wheels of the mower. See you make no mistake in ordering.

Are made in 6½ to 12 in. wheels 3 to 8 blades 17 style hand 5 horse mower

Standard Mowers the world over.

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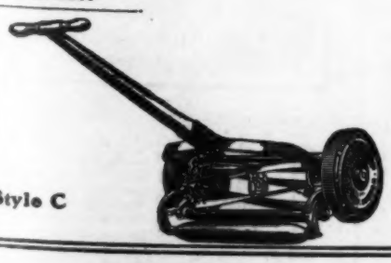
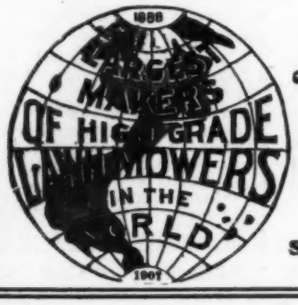
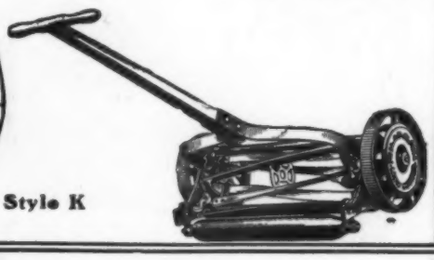
3101 to 3109 Chestnut Street, PHILADELPHIA, PA., U. S. A.



Style C





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The washer that is making a hit

UNEQUALED IN

STYLE, FINISH, DURABILITY or EASE of OPERATION

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DOUBLE BALL BEARING. FLY WHEEL UNDER THE TUB. HIGHEST SPEED. EASIEST RUNNING. QUICKER REVERSE. FOOT POWER ATTACHMENT. TUB OPENS WHEN MACHINE IS IN FULL MOTION. FIVE YEARS' GUARANTEE. SOLD TO ONLY ONE DEALER IN EACH TOWN.

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The "ONE MINUTE" Washer

Exclusive Jobbing Representatives for the West and Northwest

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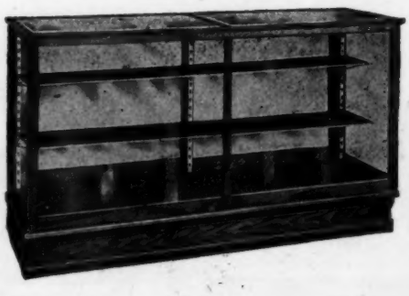

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Can be set up in five minutes without a tool of any kind—not even a screw driver—ships at ⅓ the usual freight rate.

It's a case we guarantee to be all right in every respect.

The Wolverine is the only case on the market which offers such high quality at a popular price.

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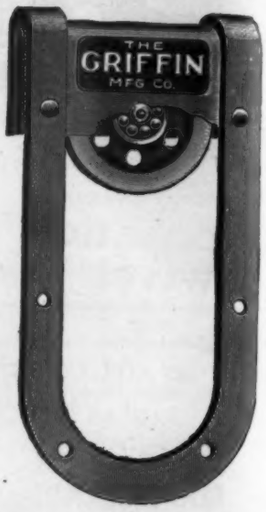

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Made Entirely of Steel
(wheels excepted)

These Hangers have hard steel Axles and Roller Bearings. Anti-Friction on any length of track.

Guaranteed to handle the heaviest doors satisfactorily.

Write for complete catalog of Hinges, Butts, Shelf Brackets, Door Bolts, etc.

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32 FEET DRYING SPACE

UMBRELLA CLOTHES BAR

Handy in Laundry, Kitchen and Nursery. Handy Everywhere. Each arm one piece, kiln dried hardwood, works independently.

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O. K. Rotary

MR. MERCHANT,

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Our Catalogue, giving full particulars, is at your disposal and which will acquaint you with a number of other machines besides those illustrated here.

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Approximate Price List.

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With the Net Price List you can take orders for goods, AT A PROFIT, you cannot afford to carry in stock . . . . .

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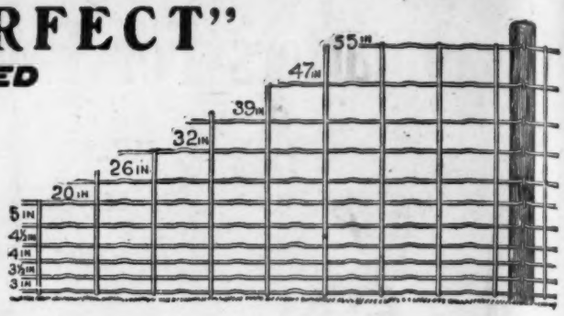
"PITTSBURGH PERFECT"

ELECTRICALLY WELDED

Fences



will curb in the strongest beasts. Can be adjusted to uneven ground. Are a sure cure for all fence troubles and will last longer than any other on the market. Dealers wishing to handle a line of goods which will prove ready sellers should carry the

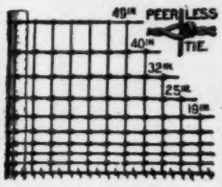
"Pittsburgh Perfect Brands"

of Wire Rods, Bright Annealed and Galvanized Plain Wire, Barbed Wire, Wire Nails, Fence Staples, Steel Hoops, Bands and Cotton Ties.

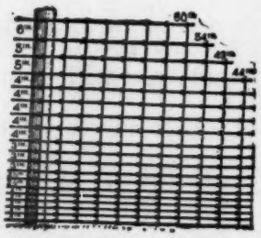
MANUFACTURED BY THE

Pittsburgh Steel Co., Pittsburgh, Pa.

THE DENNING FENCE



For yard and pasture has no equal. Our Peerless Cabled Fence with barb wire in the bottom turns hogs, absolutely. We beat the world on Poultry Fence. We make perfect Barb Wire. We ship mixed cars Woven Fence, Barb Wire and Nails.



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MANUFACTURE
A Full Line of Horse Nails
Send for Catalogue, Prices & Samples.

FOR SALE

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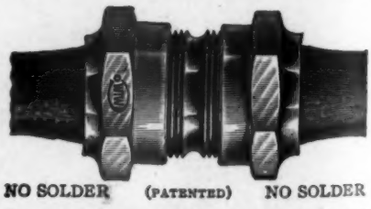
Sec. Hardware Dealers Mutual Fire Insurance Co. of Wisconsin

50% rebated this year. Surplus doubled every year since we started.

IS IT WORTH YOUR WHILE?

Mimco Solderless Couplings



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Do away entirely with wiping joints. A practical article and BIG SELLER.
Send for Descriptive Circular and Price-List.

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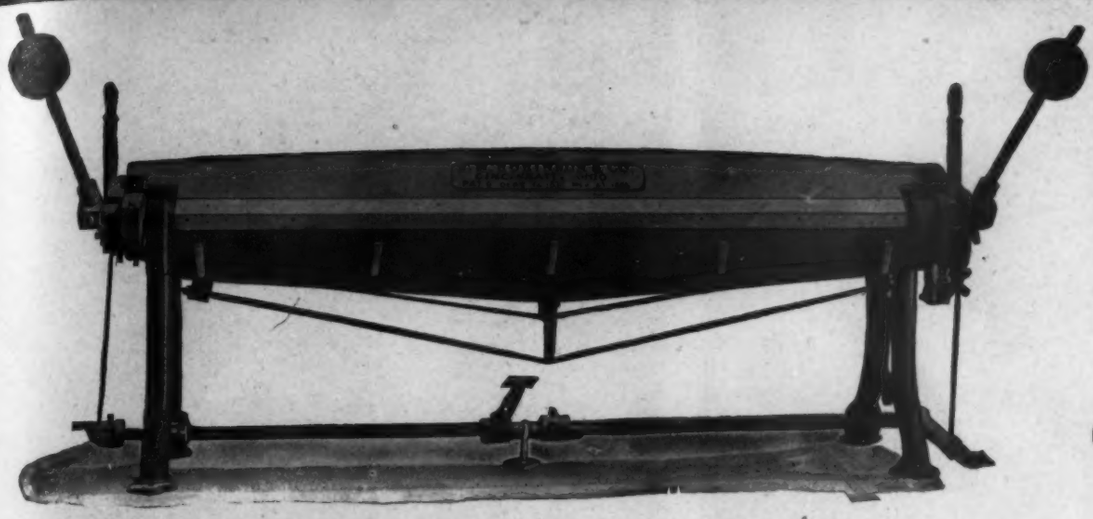

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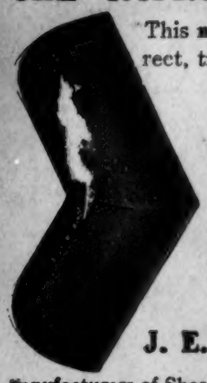

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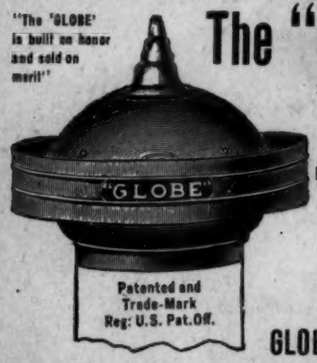

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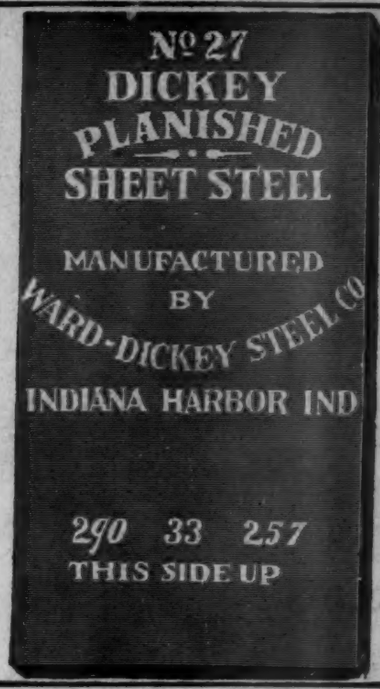

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